e Minima Donnal,

D COMMERCIAL GAZET

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES. [The MINING JOURNAL is Registered at the General Post Office as a Newspaper, and for Transmission Abroad.]

No. 2511 .- Vol. LIII.

LONDON, SATURDAY, OCTOBER 6, 1883.

SUPPLEMENT. SIXPENCE

MR. JAMES H. CROFTS, STOCK AND SHARE BROKER AND MINING SHARE DEALER, No. 1, FINCH LANE, CORNHILL, LONDON, E.C. ESTABLISHED 1842.

BUNINESS transacted in all descriptions of Mining Stocks and Shares (Sritish and Foreign), Consols, Banks, Bonds (Foreign and Colonial), Railways, Insurance, Assurance, Telegraph, Transway, Shipping, Canai, Gas, Water, and Dook Shares, and all Miscellaneous Shares.

BUSINESS negociated in Stocks and Shares not having a general market

ues. Every Friday a general and reliable List issued (a copy of hich will be forwarded on application), containing closing which will be tornum. Mines Inspected.

prices of the week. Mines Inspected.

Bankers: City Bank, London—South Connwall Bank, St. Austell.

TELEPHONE NUMBER 1003.

RAILWAYS - SPECIAL BUSINESS. - Fortnightly Accounts opened on receipt of the usual cover.

JAMES H. CROFTS, 1, FINCH LANE, LONDON. FOREIGN BONDS - SPECIAL RUSINESS. - Fortnightly

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

A MERICAN AND CANADIAN STOCKS AND SHARES— SPECIAL BUSINESS.

Fortnightly Accounts opened on receipt of the usual cover.

JAMES H. CROFES, 1, FINCH LANE, LONDON.

COLD AND SILVER MINES.—SPECIAL BUSINESS in ALL marketable Indian Gold SHARES, and in California, Callao "Bis," Gold Coast, Guinea Gold Coast, New Callao, West Callao, Tolima A, Tolima B, La Plata, Rio Tinto, Prontino and Bolivia, Potosi, Chile, Nouveau Monde, Ruby, Richmond. Victoria.

**SHARES IN THE ABOVE SOLD FOR FORWARD DELIVERY ONE, TWO, OR THREE MONTHS ON DEPOSIT OF TWENTY PER CENT.

JAMES H. CROFTS, 1, PINCH LANE, LONDON.

RON AND COAL SHARES — SPECIAL BUSINESS.

Bilbao, Oardiff and Swansea, Consett, Chillington, Ebbw Vale, Nant-y-Glo,
Newport Abercara, and Pelsall.

BHARES SOLD for FORWARD DELIVERY, ONE, TWO, OF THREE MONTHS, ON DE-

POSIT OF TWENTY PER CENT.

JAMES H. CROFTS, 1, FINCH LANE, LONDON.

ELECTRIC LIGHT SHARES — SPECIAL BUSINESS.

Anglo-American Hammond. Swan.

Brush. Maxim-Weston.

Bhares sold for cash, account, or for forward delivery (one, two, or three months) on deposit of 20 per cent.

JAMES H. OROFTS, 1, PINCH LANE, LONDON.

CAST WHEAL ROSE, OLD SHEPHERDS, MOUNTS BAY,
TRESAVEAN, HOME MINES TRUST.
SPECIAL BUSINESS in the above for cash or account.
FOR SPECIAL SALE, for FORWARD DELIVERY, ONE, TWO, or THERE MONTHS,
subject to deposit of TWENTY PER CENT.—100 East Wheal Rose, 15s.; 100
Mounts Bay, 2s.; 100 Old Shepherds, 16s. 3d.; 100 Tresavean, 8s.; 100 Home
Mines Trust, 13s., ex div.
JAMES H. CROFTS, 1, FINCH LANE, LONDON.
ESTABLISHED 1842.

MR. W. H. BUMPUS, STOCK AND SHARE BROKER, AND MINING SHARE DEALER, 44, THREADNEEDLE STREET, LONDON, EC. ESTABLISHED 1807.

BUBINESS transacted in STOCK EXCHANGE SECURITIES and MISCELLANEOUS SHARES of every description.
RAILWAYS, BANKS, FORBIGN and COLONIAL BONDS.
TRAMWAYS, TELEGRAPHS, and all the LEADING INVESTMENTS.
Accounts opened for the Fortnightly Settlement
A List of Investments free on application.

Mg. BUMPUS has SPECIAL BUSINESS in the undermentioned:—
50 Almada, 11s.
20 Great Molway.
50 Redford United.
70 Gold Coast, 12s. 6d,
100 Consolidated.
50 Carn Qamborne, 22%.
100 Consolidated.
50 Carn Qamborne, 21s. 6d,
150 Opingo, £3 17s. 6d,
150 Opingo, £3 17s. 6d,
150 Opingo, £3 17s. 6d,
150 Collom Bis, 7s.
20 Mona.
150 Collom Bis, 7s.
20 Mona.
150 Collom Bis, 7s.
20 Mona.
150 Collom Gold, 14s.
30 Collom Bis, 7s.
30 Collom Collom Bis, 7s.
30 Collom Collom Bis, 7s.
30 Collom Bis, 7s.

WILLIAM HENRY BUMPUS, SWORN BROKER, OFFICES: 44 THREADNEEDLE STREET, LONDON, E.C.

BRITISH AND FOREIGN MINING OFFICES.

MESSES. PETER WATSON AND CO., 18, AUSTIN PRIARS, OLD BROAD STREET, LONDON, E.C. BANKERS: THE ALLIANCE BANK (Limited).

MESSES. PETER WATSON AND CO.'S
BRITISH AND FOREIGN MONTHLY MINING NEWS
—STOCK AND SHARE INVESTMENT NOTES—MINES,
MINERALS, AND METAL MARKETS—SHARE LIST,
NO. 858, Vol. XVII., for OCTOBER month, is ready, and
will be sent to customers on application.

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DEALER in BRITISH and FOREIGN STOCKS and SHARES
of EVERY DESCRIPTION.
(FROM 76, OLD BROAD STREET).
ESTABLISHED 1858.

9, OLD BROAD STREET, LONDON. MINE SHARES FOR SALE. Mr. ALFRED E. COOKE can SELL the following lots (or any smaller number of shares) to immediate applicants at prices annexed, free of

commission :-

number of shares) to immediate applicants at prices annexed, free of commission:

Where prices are not inserted, the market price of the day will be taken, or offers may be made:

15 Brataberg Cop., £2½.

25 New Kitty Tin.

16 Colombian Hydraulic Gold, 6s.

36 Corn Camborne Tin & Copper, 4s.

30 Onothales Gold, 6s.

30 Onothales Gold, 6s.

30 Onothales Gold, 6s.

30 Onothales Gold, 6s.

30 Onothes Gold Gold.

40 Devon Friend., 3s. 6d.

40 Devon Friend., 3s. 6d.

40 Devon Friend., 3s. 6d.

40 Devon Briend., 2s.

30 Grams, 11s.

31 Each Hills Tin, 5s.

20 Orita Gold, 11s.

32 Frongoch Lead, 12s.

33 Potosi Gold, 7s. 8d.

35 Goginan Lead.

25 Routh Darren Silver
Lead, 4s.

30 North Bue Hills, 1s.

30 West Caradon Copper, 7s. 9d.

30 West Caradon Copper, 7s. 9d.

30 West Caradon Copper, 7s.

application.
FORWARD DELIVERY.—Ms. ALFRED E. COOKE calls the attention of investors to the fact that he now supplies shares for settlement at end of OUTOBER or NOVEMBER on payment of TEN PER CENT. DEPOSIT.

SOUTH KITTY, ST. AGNES.—These shares are likely to DOUBLE or TREBLE in PRICE in a FEW WEEKS.

PECIAL BUSINESS in the following:—
Home Mines Trust.
East Wheal Rose.
Wheal Orebor.

Brateberg.
Potosi.
Tankerville.

Prince of Wales. Victoria Gold. Sortridge.

PRICES of every description of STOCKS and SHARES are received continuously throughout the day by TELEGRAPH from the STOCK EXCHANGE. TELEPHONE NUMBER, 1268.

ALFRED E COOKE, 9, OLD BROAD STREET, LONDON. (Opposite the Stock Exchange, with which the offices are in DIRECT TELEGRAPHIC COMMUNICATION.)

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Asia Minor, 10s. 6d.
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Californian, 14s.
Caliconian, 14s.
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Chile Gold, 13s. 6d.
Chontales, 6s. 3c.
Clitters, 14s.
Colorado, £2 5s. 9d.
Colorado, £2 5s. 9d.
Colorado, £2 5s. 9d.
Devon Friendship, 3s. 6
Devon Ft. Uni., 15s 6d
Eberhardt, 4s.

BANKERS:
LONDON AND WESTMINSTER.

STOCK BROK ER,
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JOHN B. REYNOLDS, STOCK AND SHARE DEALER,
217. WALBROOK, LONDON, E.C.
Established Twenty-five Years.
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Mr. Reynolds thanks his numerous correspondents for their patronage, and continues to do his best to meet their wishes. They can always rely on boar fide information and prompt settlement of all transactions.

Mr. Reynolds is compelled, through pressure of business, however, to charge 21s, for information obtained by those who have not done business with him, and this amount must accompany any letters asking for advice.

Mr. Reynolds remarks will be found on page 1145.

Mr. Reynolds refers those interested in west Kitzy, Trevausance, New Kitzy, and West Polibreen to the official reports in last week's Journal. Mr. Reynolds is not a seller of shares in any of these mines, but is prepared to buy any reasonable number.

NEW SERIES-DESIRABLE INVESTMENTS. JOHN

O H N L E N N A N D CO. (LIMITED),
S. GROCERS' HALL COURT, LONDON, E.C.,
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Brataberg, £2 & 9 x d.
California Gold, 14s.
Caliao Bis, 7s.
Chontales, 6s. 6d.
Colombian Hyd., 6s. 3
Devon Consols, £3 %.
Devon Consols, £3 %.
Devon Priond., 4s.
Drakewalls, 5s.
Caliao Bis, 7s.
East Blue Hills, 5s. 6d
Old Shepherds, 16s.
Caradon, 19.
New Emms, £1 19.3
New Emms, £1 19.3
New Emms, £1 19.3
New Emms, £1 19.3
New Ernes, 12s.
Corandon, 19.
Organos, 12s.
Gold Shepherds, 16s.
Organos, 12s. 6d.
West Caradon, 9.5
West Caradon, 9.6

Flagstan Dist., 36, 561.

VHEAL OREBOR AND GUNNISLAKE (Clitters), AND SOUTH DEVON ITED.—The above shares should be bought without further delay for a legi-BANKERS : CENTRAL BANK OF LONDON (Limited).

RERDINAND R. KIRK, STOCKBROKER, 5, BIRCHIN LANE, LONDON, E.O.

Fortnightly Accounts opened in all Stock Exchange Securities on receipt of the usual cover

SPECIAL BUSINESS in the following or any part: SPECIAL BUSINESS In the following or any part:—

4) Akankoo, 4s. 55 Frongoch, 12s. 60 Orita, 11s. 6d. 40 Uld Shepherds, 17s. 6d. 40 Uld Shepherds, 17s. 60 Ogna Camborne. 50 Home Mines Tret., 14s 50 Chontales, 6s. 3d. 50 Home Mines Tret., 14s 50 Chontales, 6s. 3d. 50 Monta Bay, 7s. 50 East Wh. Rose, 12s. 5 20 New Kitty, 42. 20 Wineal Crebor, 425 50 Eberhardt, 4s. 50 Organos, 11s. 40 Wineal Contos, 6s. 6d. 50 Markers: LONDON AND WESTMINSTER, Lothbury

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LEEDS. HATHORN, DAVEY, and Co. have Patterns of "Differential" Engines of all sizes, from 5 to 500-horse power, and have facilities for supplying very power-

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MINING ENGINEER, AND STOCK AND SHARE DEALER,
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MESSRS. ENDEAN AND CO., STOCK AND SHARE DEALERS. 85, GRACECHURCH STREET, LONDON, E.C. ESTABLISHED 1861.

BANKERS: LONDON AND WESTMINSTER, Lothbury, B.C.

MR. E. J. BARTLETT, STOCK AND SHARE DEALER, 30, GREAT ST. HELENS, LONDON, E.O. Selected List of Investments post free on application.

ABBOTT, PAGE, NEIL, AND STOCKBROKERS, 42, POULTRY, LONDON, E.C.

M. R. J. G. R. A. N. T. M. A. C. L. E. A. N. , SHAREBROKER AND IHONBROKER, STIRLING, N.B., Refers to his Share Market Report on page 1165 of to-day's Journal.

ESTABLISHED 1886. THIRTEEN YEARS IN CORNWALL. Samuel James, Stock Broker and Mining Shark Dealer, 14, Angel Court, London, E.C. Member of the Redruth Mining Exchange.

AMUSL JAMES, STOCK BROKER AND MINING SHARK
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There are unany mines worth attention, as proceedings of reems shareholders' meetings prove beyond doubt. During the last 40 years there has no such opportunity presented tixelf as the present for investment in British mines. Metals are certain to advance. In well-informed direles no doubt is entertained on this point. Buyers must not further delay orders.

See Selected List published by S. James, 14, Angel-court, London, E.C.

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20 Bedford United, 29s 8 100 North Presstruthal, 10s

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50 Carla Bres, 634.

50 Colar Camborne, 20s

50 Colar Skitchen, 22.

51 Color Skitchen, 22.

52 Penhalis, 6s.

53 Coloria, Stitchen, 22.

54 Coloria, 10s.

55 Devon United, 29s 8 100 North Presstruthal, 20s.

50 Devon Openies, 234.

50 Devon Devon Priendship, 4s.

51 East Blue Hills, 5s.

52 Say 9d.

52 Gaginan, 10s.

52 Gaginan, 10s.

53 Guilao Bis, 7s. 6d.

54 Charles, 29s.

55 Gaginan, 10s.

56 Gaginan, 10s.

56 Gaginan, 10s.

57 Fines of Wales, 8s.

58 Coloria, 20s.

59 Gaginan, 10s.

50 Great Laxey, 21s.

50 Great Laxey, 21s.

50 Charles Research of the present properties of the present properties of the present proper

S. James is a Buyer or Seller of all home and foreign mining shares at close

market prices.

Orders by letter or telegram promptly attended to. Speculative accounts not opened or any terms whatever. Closing prices of over 150 Home and Foreign mines issued daily.

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DUCHY PERU (LIMITED), CORNWALL.

CLOSING OF THE LISTS.

The LISTS will CLOSE on TUESDAY, the 9th instant for TOWN, and WEDNESDAY, 10th instant for the COUNTRY.

THE "HOME MINES TRUST" (LIMITED), 8, OLD JEWRY, LONDON, E.C., Invites Subscriptions for the Shares of

(LIMITED), CORNWALL. DUCHY PERU

The Company will acquire an exceptionally rich property. Its native Silver and Silver-Lead Lodes form numerous junctions with the great Champion Lode of the district, thereby practically ensuring very high Dividends. The Chief Features are:—

1.—The acquisition of three large properties in the richest Silver-Lead producing district in England.

2.—The Silver-Lead from various points has realised the extraordinary price of from £700 to £800 per ton, while about £5 or £6 per ton is considered sufficient to

raise and bring it to market.

3.—The Company takes over a "going concern" on which about £70,000 has been expended (vide Report), replete with the most modern machinery, and producing large quantities of mineral.

4.-To make it one of the foremost mines in Cornwall, it is estimated, only a small additional amount will be required.

(LIMITED), CORNWALL.

Incorporated under the Companies Acts, 1862 to 1880, whereby the liability of Shareholders is limited absolutely to the amount of their Shares.

CAPITAL £50,000, IN SHARES OF £1 EACH. Payable as follows:—2s. per Share on application; 3s. on allotment; 5s. one month; 5s. two months, and the remaining 5s. three months after allotment. Should no allotment be made the deposit will be returned in full. No promotion money will be paid. The Vendor guarantees all expenses up to allotment of Shares.

GEORGE FORMAN, Esq., Chairman of Home Mines Trust (Limited).

BENNETT VAN PRAAGH, Esq., 9, St. Edmund's Terrace, Regent's Park, London.

BANKERS—LONDON: LONDON AND SOUTH-WESTERN BANK
(LIMITED), 7, Fenchurch Street, London, E.C., and Branches. CORNWALL: SOUTH CORNWALL BANK, St. Austell, Cornwall, and Branches.

Solicitors-Messrs. T. and H. R. GILL, 61 and 63, Ludgate Hill, London, E.C.

REGISTERED OFFICES-8, OLD JEWRY, LONDON, E.C.

PROSPECTUS.

This company is formed for the purpose of working an extensive and valuable range of native silver, silver-lead, and other lodes situate in the parishes of Ferranzabulce and Newlyn East, in the county of Cornwall, and known as Duchy Peru and Great North Shepherds Mines.

The property consists of three large setts, each, a mine in itself, extending over about 500 acres of mineral ground, containing nine proved valuable lodes, and many more discovered but not yet proved. It is acknowledged to be one of the richest mineral ranges in this traditionally rich district, some of the mineral having realised the unprecedented price of £5.0 per ton. (See Argali's report). The dressing-floors are connected with the Great Western Raliway by an inclined tramway, thus avoiding the greater portion of the usual haulage and carriage expenses.

The property to be acquired by the company is a going concern, well equipped with modern machinery in full working order, amongst which are:—

arriage expenses.

The property to be acquired by the company is a going concern, well equipped with modern machinery in full working order, amongst which are:—
One 60 in. cylinder pumping-engine, with bollers attached.
30 ims. 18 in. pump-work, with main rods and connections complete.
One winding-engine of two 12 in. cylinders.
Steam capstan. Crushing machinery.
Dressing machinery.
Saw-mills, tramroads, rolling-stock, tools, &c.
The requisite buildings are erected and in good repair.
Following is a list of well-known miner in this marvellously rich mineral belt, in the centre of which Duchy Peru is situated.
Old Shepherds
Great Wheal Leisure Penhale and Lomax
Perran Bt. George Perran Consols Meal Golden
Wheal Budnic Consols Wheal Mount Great Retalanck
Wheal Hope Treamble Treamble

The foregoing mines have already produced many millions of pounds' worth

The foregoing minute have already property have been proved exceptionally rich of mineral.

The lodes passing through this property have been proved exceptionally rich in native sliver-lead, copper and other cres; the shaft has been sunk \$0 fms., and levels driven at an outlay of over £70,000, of which this company wall reap the full and immediate benefit, (See report of Nancarrow and

will reap the full and immediate benefit, (see report of ransard polidge.)

DUGHY LODE.—This lode above the 70 has produced blende ore of a very superior character, highly charged with silver. During the last two years about 12,000 tons have been raised and returned, or about 500 tons per month, giving a large profit to the owners; and from the reports of mining engineers, it is stated that as depth is attained an equal quantity of silver-lead will be returned. (Vide Capt. Argall's report.)

Capt. P. Argall's report.)

Capt. P. Argall's in his report, says:—"The 60 was found to contain considerable quantities of galena (silver-lead), which in the 70 had largely increased, so that it appears highly probable that when the deeper levels of this mine are driven large deposits of argentiferous galena will be opened."

GREAT PERRAN LODE,—Capt. Argall reports:—"The Great Perran lode

passes the property for about ¾ mile in length, two-thirds of this distance being in new or unwrought ground, while the remaining part that has been partially explored has produced large quantities of copper, blende, and other

being in new or unwroughs ground; and other ores."

NORTH AND SOUTH LODES (Nos. 1 AND 2), have been proved to contain silver-lead, and from Capt. Argail's report this is of great importance, for it has been almost invariably the case where these lodes intersect the Great Perran lode (the champion lode) rich deposits of silver ore have been found.

MEXICO LODE was the first aliver lode worked in Cornwall, and proved to be extraordinarily rich in native silver and argentiferous galena, and has a long run in unwrought ground through the company's grant. Parcels of ore from this lode have realised over £700 Ler ton.

MOUNT AND TREBISKEN LODE, identical in its output, has produced, as assayed by Prof. Warrington Smythe, ore worth £800 per ton, and where it intersects the elvan about 7½ tons realised the extraordinary sum of £1100. (See Prof. Kinahan's report.)

"PERU LODE lies to the east of the last two. On this lode Wheal Peru was opened many years ago, and from it a fortune was amassed in a very short time. On the same lode a large deposit of silver was found, some parcels containing 2000 oss. of silver per ton of ore."

"Where this Peru lode intersected the great iron lode has been already pointed out, and I have merely to add that there are about 400 fms. of this important lode between these two places that have never been explored, though there are at least two important intersections of caunters, as well as one of the great elvans in this piece of unwrought ground; and I can see no reason why these intersections will not prove as valuable deposits of native silver and galena as those just described on the same lode."

GREAT NORTH SHADENERDS.—The reports show this is proved to be rich

in this piece of unwrought ground; and I can see no reason why these intersections will not prove as valuable deposits of native silver and galena as those just described on the same lote."

GREAT NORTH SHEPHERDS.—The reports show this is proved to be rich in silver-lead, assaying over 30 ozs. aliver to the ton, and very little has been done to develope its resources in consequence of its having been locked up from mining operations for about 50 years, and with the improvements that have been made in modern machinery and dressing-appliance, it cannot fail to prove a most reliable addition to the property.

Capt. P. ARGALL says—'I can come to no other conclusion than that already given—that under the iron shoots will be found valuable deposits of silver-lead, and that at a moderate depth below the present bottom of the mine, and with their numerous north and south lodes, rich in silver, their various caunter lodes and elvans forming important junctions and intersections, the great length (½ mile) on the course of the lode, with its shoots of lead, blende, and ore, show the property to be a very valuable one, and one that only requires a moderate capital to open out its resources, which with proper development would long continue a considerable source of profit to investors."

Capts. NANCARGO, Managers of Old Shepherds, and Capt. Doide, Manager of East Wheal Rose, in summing up say:—'Looking at these various north and south lodes, which have proved so rich in the Peru part of the sett, and their intersections with the Great Champion Perran Lode, this, with the great masses of minerals which have been met with in it and the important change which is

MINERAL RESOURCES OF THE UNITED STATES.

MINERAL RESOURCES OF THE UNITED STATES.

Some interesting details are given in a report for 1882, and the first six months of 1883, by Mr. Albert Williams, jun., Chief of Mining Statistics and Technology division, United States Geological Survey (Hon. J. W. Powell, director) is about to be issued, and an abstract from the advance sheets supplied to the Journal of the Franklin Institute furnishes the totals of the production of the more important mineral substances.

COAL.—The only statistics in which the trade is interested are those relating to the amount of coal which is mined for and reaches the market. There is besides a local and colliery consumption which is usually disregarded in statistics, and which ranges from 5 to 6½ per cent. on the total shipments. Of what may be called the commercial product, the quantities in 1882 were:—Pennsylvania anthracite, 29,120,096 gross tons; bituminous, brown coal, lignite, and small lots of anthracite mired outside of Pennsylvania, 57,963,038 gross tons: total, 87,083,134 gross tons. The spot value of the commercial product was as follows:—anthracite, \$65,520,216; bituminous and other coals, \$72,453,797; total, \$137,974,013. During the first six months of 1883 the output was:—Pennsylvania anthracite, 14,010,767 gross tons; bituminous and all other coals, 30,000,000 gross tons; total, 44,001,767 gross tons. The spot value of the commercial product during the first half of 1883 was:—Pennsylvania anthracite, \$31,524,226; bituminous and other coals, \$37,500,000; total, \$69,024,226. Including the local consumption, &c., the total product in 1882 may be stated at 92,219,454 gross tons—31,358,264 tons of Pennsylvania anthracite and 60,861,190 gross tons of other coals; and the value at the mines was:—Pennsylvania anthracite, \$70,556,094; bituminous coal, &c., \$76,076,487; total, \$146,632,581.

ions of Pennsylvania anthracite and 69,561,190 gross tons of other coals; and the value at the mines was:—Pennsylvania anthracite, \$70,565,094; bituminous coal, &c., \$76,076,487; total, \$146,639,581. IRSX.—The principle iron statistics for 1882 are as follows:—Pigron made, 4,623,328 gross tons; apot value, \$10,63,36,429. Iron ore mined, 9,000,000 gross tons; spot value, \$31,20,000. In parted iron ore consumed, \$70,000 gross tons; spot value, \$31,20,000. In parted iron ore consumed, \$59,655 gross so tons. Total spot value of all iron and steel works, including furnaces, \$100,000 basels. Limestone consumed in all iron and steel works, including furnaces, \$60,000 gross tons. Total spot value of the first stage of manufacture, which is a spot value of the lead. In the census year ending May 31, 1810,000 gross tons, 1910,000 gross tons, 1910,

works, including furnaces, 3,140,000 gross tons. Coke consumed in all iron and steel works, including furnaces, 1,780,000 gross tons. Charcoal consumed in all iron and steel works, including furnaces,

Charcoal consumed in all iron and steel works, including furnaces, 38,750,000 bushels. Limestone consumed as flux, 1,950,000 gross tons; spot value, \$1,072,500.

GOLD AND SILVER.—The Mint authorities furnish the following statistics for 1882:—Gold, \$32,500,000; silver, \$46,800,000; total, \$79,300,000; or an increase of \$1,600,000 over the output in 1881. For the first six months of 1883 the product is estimated at \$16,250,000 gold, \$23,400,000 silver, and \$39,650,000 total; the rate of production being assumed to be the same as in 1882.

PETROLEUM.—The production of crude petroleum in the oil fields of Pennsylvania and New York in 1882 was 30,053,500 barrels of 42 gallons each, worth, at an average spot value of 78½c, per barrel,

or Fennsylvania and New York in 1882 was 30,035,000 barrels of 42 gaillons each, worth, at an average spot value of 78½c. per barrel, \$23,704,698. During the first half of 1883 the yield was 11,291,663 barrels, worth, at an average spot value of \$1.00½ per barrel, \$11,305,778. In addition to the quantity above stated, California produced in 1882 about 70,000 barrels.

produced in 1882 about 70,000 barrels.

COPPER.—The production of copper in 1882 was 91,646,232 lbs., worth, at an average value of 17½c. per pound in New York,\$16,038,091. For the first half of 1883 the production is estimated at 58,000,000 lbs., worth, at an average price in New York of 14.66c. per pound, \$8,500,000. The spot value of the copper at the point of production is a matter which cannot be stated with any accuracy; nor was any attempt made to ascertain the tons of copper ore mined. In 1882, 3,325,000 lbs. of bluestone, worth \$191,187, were made; and in the first half of 1883 the manufacture of bluestone is estimated at 1,662,500 lbs., worth \$95,593. 1,662,500 lbs., worth \$95,593.
LEAD.—In 1882 132,890 net tons of lead were produced, worth, at

in San Francisco of 36½c. per pound, \$1,487,537. During the first six months of 1883 the production was 22,740 flasks (= 1,739,610 lbs.), worth, at an average price of 35½c. per pound, \$613,213. During the year 1882 700,000 lbs. of vermillion were made in the United States, having a total value of \$315,000.

NICKEL.—The production of pure grain nickel in 1882 was 277,034 lbs., worth, at \$1·10 per pound, \$304,737. There was also a production of 50 per cent. copper nickel alloy containing 4582 lbs. of nickel, worth \$5040. The total nickel production was therefore 281,616 lbs., worth \$309,777. The only nickel reduction works in the United States were closed during the first half of 1883.

COBALT.—The value of cobalt ores and matte for 1882 was about \$15,000. The amount of cobalt oxide made was 11,653 lbs., worth \$32,046.

MANGANESE.

-The production of manganese ore in 1882 was 3500 gross tons, and the spot value at the mines, estimated at \$15 per ton, was \$52,500.

was \$52,500.

Chromium.—The production of chrome iron ore in 1882 was about

CHROMIUM.—The production of chrome iron ore in 1882 was about 2500 net tons, worth, at an average price of \$40 per ton in Baltimore, \$100,000. The spot value cannot be ascertained.

TIN.—A trifling amount of tin ore was mined in 1882 and the first half of 1883, and production of metallic tin began on a small scale towards the close of the latter period.

Antimony.—The production of metallic antimony, so far as ascertained, was 60 tons in 1882, worth about \$12,000.

BUILDING STONE.—It is estimated that the value of the building stone quarried in 1882 was \$21,000,000.

BRICK AND TILE.—It is estimated that the total value of the brick and the made in the United States in 1882 was \$34,000,000.

LIME.—There were 31,000,000 barries (of 200 lbs. each) made in

tons; spot value, \$1,147,830. By the river mining companies, 140,772 gross tons; spot value, \$844,632. Total, 332,077 gross tons; spot value, \$1,992,462.

Marlis.—In New Jersey, 1,080,000 net tons of marl were dug in 1882. The average spot value at the pits is 50c. per ton, making the total \$540,000. There was a small yield of marls in some of the Southern States, the amount of which has not been ascertained.

[To be continued in next week's Journal.]

Meetings of Bublic Companies.

LINARES LEAD MINING COMPANY.

A general meeting of shareholders was held at the offices of the company, Queen-street-place, on Thursday,
Mr. William Cox in the chair.

Mr. H. Swaffield (the secretary) read the notice convening the meeting, and the directors' report and statement of accounts were submitted.

The directors reported that the accounts for the half-year ending June 30 show a profit for that period of 27521. 9s. 6d, which is an increase of 4681. 14s. 11d. on the profit of the previous six menths.

The directors reported that the accounts for the half-year ending June 30 show a profit for that period of 27521.9s. 6d, which is an increase of 4681. 14s. 11d. on the profit of the previous six months.

The reserves of discovered ore are again reported to be \$450 tons—At the Pozo Ancho Mines, 4250 tons; at the Quinentos Mine, 1200 tons; total, 5450 tons. The superintendent and mining agents' reports state that at the Pozo Ancho Mine "great attention has been paid to exploratory works" during the half-year, and that considerable lengths have been added to the principal levels. The raisings of ore were by this means kept up without trenching on the reserves. The same policy has been adopted at the Quinentos Mine, and with similar results. The prospects at both mines for the new half-year appear to be good. At Majada Honda Mine the scale of working has been curtailed, in view of the low price which prevails for lead, so as to make the mine as nearly as possible self-supporting. The exploratory operations at his mine, although temporarily superiods. The exploratory operations at his mine, although temporarily superiods. The exploratory operations are his mine, although temporarily superiods. The exploratory operations are his mine, although temporarily superiods. The exploratory operations have been carried on without interruption, and the results obtained have been good. All the necessary particulars are furnished in the annexed smelting report. The rates of carriage have continued about the same as for some time past, but the directors are unable to report any improvement in the lead market, prices continue very low, and must be unremunerative to any but the best mines. The balance at the credit of the profit and loss account on June 30 was 28554, 17a, 7d.; out of this sum the directors declared a dividend of 3s. 6d, per share, absorbing 26254, and leaving a balance to carry forward of 2394. 17s. 7d.

The CHAIRMAN moved that the report and accounts and balancesheet be received and adopted. In doing so he said he

The CHARMAN said the company had 23.02. at the bankers. As regarded the reserve fund the company had now close upon 10021. In Consols, and there was the house at Cordova, which could be turned into cash at any moment.

Mr. JOHN TAYLOR said he would call attention to one or two points in Mr. Tonkin's report. Anyone reading that report must be convinced of the truthfulness and straightforwardness of everything which was placed before them by Mr. Tonkin. It was a plain, unvarnished tale. He was sorry that Mr. Richard Taylor was absent, tas he was abroad, and could not attend the meeting. One or two points in the agent's report might be looked upon with great congratulation, and there was one matter which they would watch with interest, and that was the improvement which was taking place in the deeper levels of the mine. It was stated that "the lode in the 130, driving east of Warne's engineshaft, was poor in the first month of the year; since then it has been worth 1 ton per fathom, which is its present value." That meant a large amount of ore discovered and opened up since the last meeting. In the 135, driving west of Pelli's engine-shaft, the lode was worth 1 ton per fathom during the first half of the period embraced in the report. This meant that there had been a maintenance of the reserves. There had been an important work commenced since the last general meeting, which was the cross-cut from the 130 to the 135, to communicate the north lode and Warne's Mine. When this was accomplished thewater from the two lodes would be pumped from one engine-shaft. At Quinientos Mine they had to look with interest at the driving of the 100 and 115. There was a fine course of ore seen in the 30 above, and from what was known of the district there was every reason to believe that that ore would be met with in the deeper levels. As to the general condition of the mine, it was very satisfactory, and he could sincerely congratulate the shareholders upon it at the present moment.

Mr. Tonkin's said he had great pleasure in assur

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anns to Capt. Tonkin and the staff. Capt. Tonkin acknowledged the vote, and said he was under great obligations all the staff at the mine for the able assistance they rendered him. The meet-of them broke up.

FORTUNA COMPANY.

A general meeting of shareholders was held at the offices of the

company, Queen-street-place, on Thursday,
Mr. Robert Henry in the chair.

Mr. H. SWAFFIELD (the secretary) read the notice convening the meeting, and the directors' report and statement of accounts were

The directors reported that they are pleased to be able to present to the shareholders a ratisfactory report of the past half-year's operations; and, as already notified to them, to pay an increased dividend. The accounts show that the profit amounted to 48021. 9s. 1d. dend. The accounts show that the profit amounted to 4802%, 9s. 1d. Comparing this with the profit for the half-year to Dec. 31 last, 360%. Its 5d, it will be seen that the increase shown on the present account is 11921/17s. 3d. Notwithstanding the quantity of ore raised during the six months to June 30, the reserves have not diminished—they are again estimated at 9700 tons—at Salidos and Canada Incosa Mines, \$500 tons; at San Anton and San Francisco Mines, 1200 tons=9700 tons.

By reducing the number of hands at some of the least productive parts of the mines, the expenditure has been much curtailed, but sufficient exploratory work has been carried on to maintain the productive power of the mines. At Canada Incosa Mine the best levels during the pist six months have been the 90, west of San Pedro shaft, and the 100, east of Lownde's shaft, and the prospects at these levels are still good. At Salidos the 130 and 145 have opened out good ore ground, and are still turning out well. The

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show you, however, that there is no need to despair, let me mention to you that I am Ohairman of a mining company (Leadhills), in which we had very great difficulties to contend with, and all sorts of censures were costs upon us, and upon me in particular. Circumstances forced us to run that mine into debt by the sum of about 500%, but that money was well spent in sinking shafts and driving levels. We, however, knew what we were about. Oapt. Arthur Waters, your manager, is the general superintendent of that undertaking. We had long discussions with him. Insinuations were cast out against him, and against me, as well as against the entire board. We pursued cur policy undeterred by these attacks, knowing that time, which tries all things, would vindicate what! we did. We gradually paid off that debt out of profits, and during the last twelve months we have divided about 10,000%. amongst the shareholders, besides making extensive improvements out of revenue. Now, there is every reason to suppose that the history of Tankerville will be the same. The mines here varied as they varied at Leachills. It was only the other day that there was some talk of abandoning the old Tankervilie Mine, not, of course, Bog and Pennerley, but simply the Tankerville projection of the sett. During the last four months we only obtained 395%, overth of lead and blende from Tankerville proper, against which you will find that there is an expenditure of about 2500%, or a loss, in round figures, of 1500%. Oapt. Waters and Mr. Smitham are here to day, and they know that things are looking very different from what they did a short time ago. These mines, of course, fluctuate in value. Sometimes the lode is rich and sometimes poor, but they must be prosecuted vigorously, and, as I said before, capital must be provided for this purpose, and provided by those shareholders who have not subscribed. If they do not, it will be a matter for the consideration of the directors after another 5s. a share is called up (as the shareholders who have not subsc

bility, and have a surplus available for distribution amongst the shareholders. The Chairman, amidst cheers, concluded, as he began, by moving the adoption of the report.

Mr. Bamuel York (director), in seconding the resolution, said: I do not know that this subject needs any comment from me, for our worthy Chairman has ably dealt with it, and shown you exactly the position in which we stand. At the same time I cannot but repeat that it is greatly to be regretted that the shareholders have not come forward and subscribed as requested. Had the shareholders have not come forward and subscribed as requested. Had the seldent, from past experience, there is almost a certainty that we shall find a rich body of ore. Unless capital is subscribed to sink the remaining 25 fms. I do not see how we can carry on with the Tankerville Proper, at which it is absolutely needed. I have great pleasure in seconding the resolution. (Cheers.) Mr. Collins suggested the advisability of sending out the report of this meeting to the shareholders to make one more appeal to them, pointing out the consequences of further neglect. (Hear, hear.)

Dr. Rac said he had only recently joined the company, and was not aware that money was needed, for the very good reasons specified by the Chairman in his speech. He wished to know if operations at Tankerville Mine could not be suspended whilst the workings at Bog and Pennerley were continued. In the meantime lead might rise in price, and the value of Bog and Pennerley increase, so that money would be forthcoming. He observed that even now thess two mines had made a profit, whilst the loss was upon Tankerville. Could not Bog and Pennerley be worked without loss for a time, and Tankerville be held in abeyance?

Mr. HENEY CATTLEY STEWART expressed his regret that the shareholders did

mines had made a profit, whilst the loss was upon Tankerville. Could not Bog and Pennerley be worked without loss for a time, and Tankerville be held in abeyance?

Mr. Henry Cattley Stewart expressed his regret that the shareholders did not more generally respond to the invitation of the board to come and see the properties for themselves. Perhaps if that invitation were couched in more prosesting terms the attendance at these useful meetings would be larger on future occasions. If the shareholders came and saw the nature of their properties—for here there were really four mines—they would be so satisfied that they would readily subscribe the comparatively small sum now required. He was one of those who had taken preference shares—thear, hear)—and so satisfied was he that this was a fair speculation, that since the last meeting he had taken some more. The real question before the meeting, however, was one of finance, and he wished to suggest that if the balance of the preference shares were offered at a discount, they might be readily absorbed. He would, under such an arrangement, be quite prepared to increase his holding. He also wished to ask whether it would not be possible, by a guarantee, the security being the produce of the mine, to stock the lead pending better prices. He did not believe any gentleman here expected the present price of lead would long continue, and that being the general opinion why should they sell it at the present great disadvantage? (Hear, hear.) With regard to the present manage ment he had only to express his perfect confidence with it, and his belief that it was second to none in England. (Cheers.)

The CHAIRMAN said that last year there was a very large meeting, but probably the inclemency of the weather prevented many persons from attending at this time. (Hear, hear.) Capt. Waters would now make a statement with reference to the mine.

Captain Arthur Waters, who was received with cheers, said:—Ladies and sentence.

bably the lactemency of the weather prevented many persons from accounts at this time. (Hear, hear.) Capt. Waters would now make a statement with reference to the mine.

Captain ARTHUR WATERS, who was received with cheers, said:—Ladies and gentlemen, I think I had better deal first with the sinking of Watson's engineshaft. It was known to all the shareholders that an arrangement had been entered into by the Chairman and managing director with the ground landlords that, upon their giving us a considerable reduction of royalty, we were bound to do certain things, one of which was that we were to sink Watson's shaft 27 fms. below the 232, at which depth (or, say, 30 fms.) we expected to reach the junction of the lodes. However, on making a careful survey by instruments we came to the conclusion that the junction would be met with in 27 fms., supposing that the lodes went down at the angles we expected. We now think we shall reach the junction at that depth, because the north lode at the 180 is about 10 fms. off the main lode, but in the present bottom of the shaft the lodes are 4½ to 5 fms. spart, and show that they are coming together faster than we had calculated. The north lode is now in the bottom of Watson's shaft, which is 8½ fms, below the 232. We shall go on sinking a depth of 13 to 15 fms., and then drive out and prove the lodes at that depth. Then we shall have cut plat and drive levels each way and resume sinking afterwards—that is as soon as we can avoid all danger to the men. (Hear, hear.) I calculated we should accomplish the whole distance in 18 months from the time of starting. We started three months ago, so that 15 months from the time of starting. We started about 1000. We have all the pumpe that we shall require, and it will be simply a question of labour and timber—in fact, 1000. will carry us to the junction. Mr. Benylley: And you are finding ore in the shaft, which is helping you to

Mr. Colliss: That seems a very small sum.

Mr. Bentley: And you are finding ore in the shaft, which is helping you to pay expenses. (Hear, hear.)

Capt. Waters: We used to have to drive 3 or 4 fms. to cut the north lode, and 5 or 6 fms. to cut the main lode, but now the north lode is actually in the pit, and the two lodes are only 5 fms. apart. The chances are, in fact, that we shall have the two lodes together in the pit bye-and-by, but I doubt whether the north lode will go through the main lode. I believe that these two lodes long the main lode. I believe that these two lodes one wis gibt will turn out in depth to be only one lode, and this opinion I can prove to a demonstration, to any miner or shareholder who chooses to follow me into the question. I can prove that the one lode in the 70, which produced the rich bunch of ore we had 9 or 10 years ago, split up into two divisions, and also that they are now coming together again, and will subsequently go on in depth as one lode. My argument from that is, that, inasmuch as we had a very good deposit when the two lodes were together at the 73, and from there down to the 100, we shall at the junction have a rich mine again. (Cheers.) It was this that suggested to me the plan of sinking Waston's shaft, and if we had had the money at the time we wanted it we should have been far more advanced than we are to-day. (Hear, hear.) When these representations were made to Mr. Peter Waston, he said, in a laster;—"Go on with the shaft; I will find the money myself. Start at once. (Cheers.) How long will you be before you can start 4 money. (Cheers.) I went all through thankerville yesterday. I speak in the presence of my commade. Capt. Smitham, who was with me, when I say that I have not seen such a lode in Tankerville as we have now for years before. I now refer to the north lode in the roof where we are stoping in the 220. We drove from 2% to 3 fms. in the 200 where lately there was nothing but two walls, but where we have now a magnificent course of ore 6 to 8 ft. wide ent in the 100, where we expect to cut the north lode in 8 to 10 ft, further driving, and expect also to have a productive lode from that point to the very bottom of the mine. I think our prospects are at least 50 per cent, better than they were sik months ago, and certainly much better than they were on the occasion of our annual meeting here twelve months ago. Tankerville proper was then looking very poor. As we go on sinking towards the junction of the two lodes, and on this north lode we are cheered with the hope that Tankerville will yet rival its most palmy days. (Cheers.) I now turn to Fennericy Mine, which I carefully inspected on Monday. We have a grand lode there 8 fms. below the 30. We have driven 45 to 5 fms. west of shaft on that course of ore, which has varied in width from 8 in. to 1 ft., and in some places to 2 ft. wide, in solid ore. We have driven 4 to 5 fms. east, and laid open a rich bunch of ore in the bottom of the level. The shaft is down 5 to 5 fms. below these levels, and we purpose sinking 10 fms., and then drive out again east and west. We have fair prospects, and know that between the 30 and the 120 we have some 20 or 40 fms. of ore ground in reserve. We cannot say whether the bunch will continue through this distance as rich as it is now; but there is no reason will continue through this distance as rich as it is now; but there is no reason will to some through this distance as rich as it is now; but there is no reason will be supposed to the other order of the same and the same, and we know that the Warm Water lode throughout the mine has made rich against the shale. We can at present only tell you that we have these 30 and 40 fms. in helight and 22 in length, and that we are sinking the shalt in the middle of a course of ore. We are, as I explained, driving levels west and east, and sto, dng to the extent of from 100 to 120 tons a month. If we can only get a good price for lead Pennericy will at once become a profitable mine. I will now refer to the Bog. If we can obtain the money

cavity, and see if the ground is less broken and the walls are firmer. If we succeed in finding it so I believe we shall have a great bunch of lead there. We hope to peak up the stopes with the debris, which would otherwise cots us money to raise to surface. I believe there is a better lode down there than we have ever Mr. HEXRY WILLON (director) said it had been made clear to the meeting by the speech of the Chairman that the whole question resolved itself into one of finance. He must join with his colleagues in the regret they had expressed that the shareholders had evinced so languid an interest in the affairs of the company. (Hear, hear.) There seemed to prevail amongst them an idea that the shareholders had evinced so languid an interest in the affairs of the company. (Hear, hear.) There seemed to prevail amongst them an idea that the company were capable of performing the impossible task of making bricks without struw, or without any response from the shareholders to an invitation that they should provide capital for the purpose of working their own property. (Hear, hear.) Before he first associated himself with this enterprise he was perfectly satisfied that it would pay well if conscientious management and capital were than the structure of the structur

ROMAN GRAVELS MINING COMPANY.

ROMAN GRAVELS MINING COMPANY.

The half-yearly general meeting of this company was held on the mine, near Minsterley, Salop, on Thursday,
Mr. TUFNELL SOUTHGATE in the chair.

Mr. Frlix F. Wilson (the secretary) read the notice calling the meeting, and the report of the agents was taken as read.

The CHAIEMAN said: Gentlemen, I do not intend, as we are very much limited for time, to address you at any length, because I think that Captain Waters is the gentleman to whom you will have the greatest delight in listening, and his observations are sure to be instructive. I have no doubt since you have been here you have all been over the mine, and seen what has been done during the past 12 months, and you cannot fail to be satisfied with the mine in every shape and way. (Hear, hear.) On reading the report you will observe that during the last year we have sold 3184 tons of lead ore and 50 tons of blende, but when you come to look at the figure it has produced it is almost crushing. I was going to say, to those engaged in the lead mining industry. (Hear, hear.) The difference between the price to-day and that which we received about 10 years ago represents to us a loss of profit of about 20,0004, a year. It is something appalling in the history of lead mining that the price of lead should have fallen so low as it is to-day. Whether it is going to experience an early or no rise is impossible to say. They say that you should never prophesy unless you know, and the prophets who have been predicting a rise in lead for some time have not been altogether right. Therefore we must content ourselves with hoping that for the future lead will take a turn in the upward direction. The mine looks well, as Capt. Waters will take a turn in the upward direction. The mine looks well, as Capt. Waters will take a turn in the upward direction. The mine looks well, as Capt. Waters will take a turn in the upward direction. The mine looks well, as Capt. Waters with any of my going underground for the company, I measured the distance the 65 ha

engine-shaft cross-cut 100 fms. to new engine-shaft thence to the present fore-breast—a distance of about 216 fms. We have met with various twitches in driving up from old shaft to new shaft, and thence along to the forebreast; but taking the level altogether the yield of ore from it and the stopes above is nearly equal, if not quite equal, to the yield from the driving and stoping at and above the 65. This end is now south to the beginning of what we call our great shale bunch, and looking at the position of the lode, which is nearly perpendicular, we have a long distance comparatively yet to drive to the shale. The old engine-shaft has been sunk from the 80 to the 95 in the present company's time, and the 95 has been driven on the cross-cut south to new engine-shaft, the distance gone before, 100 fms. through a goodjode, on the way thence to the present fore-breast 208 fms., making together a distance of 308 fms. Of course we have sunk winges in advance of the ends, and opened the ground for stoping, as well as ventilating the mine, so that all the ground has been worked in a miner-like way, with the results that have been laid before you from time to time. We now come to the 119. Having given the distance between the two shafts I would remark that the 110, south of new engine-shaft, is driven 179 fms., and the end is now, as stated in the report, going south of Blockley's winze on a lode worth to-day 3½ tons per fathom—an improvement upon last week. We expect to have a continuous run of ore ground from the present end to the shale. You will remember that Blockley's winze has just been holed to this level close up to the end, and the winze having gone down through a profitable lode—whave a good section of ore ground open for immediate development. The 125, south of new engine-shaft, is driven 32½ fathoms. We have had stones and pacches of ore in this drivage, but ore not far enough south to get into what we have a good section of ore ground open for immediate development. The 125, south of new engine-shaft, i

Mr. Bentley: What about the 155?—Capt. Waters: We are not driving that.

Mr. Bentley: Is it is not worth driving?—Capt. Waters: Until we are prepared to sink the shaft we cannot drive that. This is the latest message from Bog—"We have now come up from underground. The No. 13 sump in the western end is now worth 35 cuts. of lead ore to the fathom." The machinery keeps the water down easily. Let me now refer to Potter's Pit. The new shaft, which we are bound to sink, according to the arrangement with the ground landlords, has been sunk from the 91 to the 120, and at the very bottom we discovered a large cavity filled with loses stuff and rocks tons in weight, and the drive the 120 east, and communicate with the ladder winze which we sank in the first instance. We drove the 120, and ventilated the place, which was as hot as furnace. Having done this we are now sinking a winze a little to the east of the big cavity below the 120 for the purpose of trying to get under that cavity, and see if the ground is less broken and the walls are firmer. If we succeed in finding it so I believe there is a better lode down there than we have every seen. (Cheers.)

Mr. Henney Muson (director) said it had been made clear to the meating the many and the great north band of shale. Knowing that all the mines in Stropshin make against the couth shale, and against the east band of shale. Knowing that all the mines in Stropshin make against the south shale, and against the east band of shale. Knowing that all the mines in Stropshin make against the south shale, and against the cauth shale, and against the cauth shale, and against the cauth shale, and against the south shale, and against the cauth shale, and against the south shale, and seals the case will. (Heart, hear,) I need not say anything about the winter or stopes. These are fully referred to in the report, but all it was full the mines of stopes in the mine from th solidady, so that we may expect. In the case of authority networks and ground to make against the seath shall of shalls, so the case may be, we do not see any reason to don't that we shall find a run of orta-against may be, we do not see any reason to don't that we shall find a run of orta-against may be, we do not see any reason to don't that we shall find a run of orta-against may be reason to the company of the company

Mr. Hener Cattlex Stewart said it was very gratifying to the shareholders to heer the remarks of the directors and the reports of the agents confirmed by a stranger to-day. Two Spanish gentlemen were here on the occasion of the last meeting, and they went away quite delighted with what they had seen, These circumstances tended to confirm the general impression of the shareholders that the mine was managed as well as it could possibly be. The chairman and directors were gentlemen of ability and experience, and the manager was probably unequalled in this particular branch of industry. (Hear, hear.) At the same time they were face to face with difficulties of no ordinary kind-difficulties which clearly proved to him that the produce of lead mines in this country had not fairplay; in other words, it was not protected. He though the time would come when this subject would command greater attention than it now received. At least, he hoped that period was not far distant, when we should see a rise in the price of lead. He was always very much instructed when he heard Capt. Waters speak, because his speechs brought shareholders to a clearer realisation of the facts surrounding their property and the nature of the investment they had made. All who came to these meetings invariably went away satisfied. (Hear, hear.)

Col. Connack said that Mr. Peter Watson, in his able and intelligent speech, had explained the exact position in which the shareholders stood, and the enormous sum they had expende i. It must be generally admitted that the shareholders had done their duty to the property; but had the landlords done their duty to the shareholders? (Hear, hear.) The company had undoubtedly passed through troublous times, and mining was everywhere at a low ebb. In Cornwall he understood that the lords of the soil had made considerable reductions in dues, and if applied to he had no doubt the landlords here would do the same. (Hear, hear.)

The Chairman: At the meeting of the birectors yesterday this matter came up. It has engag

him on the subject. Mr. Moore, I have every reason to say, is a just and fair man, and I hope that he will see the equity of meeting the shareholders in this matter. It cannot be right that this mine should be worked solely for the benefit of the sold. At the present moment he is the only gentleman who is getting much, if anything, out of the mine; but I hope before we meet again that we shall be able to say something to you of a satisfactory nature as coming from Mr. Moore on the subject. (Hear, hear.)
On the motion of Mr. Strewarr, the proceedings closed with a hearty vote of thanks to the chairman, the directors, the manager, and agents.

LEADHILLS SILVER-LEAD MINING AND SMELTING COMPANY.

The 13th ordinary general meeting of shareholders was held at the effices of the company, Finsbury Circus, on Friday, Sopt. 28, Mr. PETRE WATSON (the managing director), in the chair. Mr. FELIX F. WILSON (the scoretary), read the notice calling the meeting, and the report and accounts were taken as read. The CHAIMAN said: —Gentlemen, the directors have very much pleasure in meeting you here to-day in one sense—so far as the development of the mines is concerned, and so far as regard to the control of the mines is concerned, and so far as regard to the mines. The directors may congratulate themselves, their local management, Capt. Waters, the consulting engineer, as well as you, gentlemen, the shareholders on the position which you occupy to-day in the midst of the greatest gloom which has hung over the leadmining industry of this country in the memory of iving man. (Heav, hear). I believe present time—71. Per from; therefore, if the directors, instead of meeting you present time—72. Per from; therefore, if the directors, instead of meeting you have been allowed the control of the cont

th

Water' report, be received and adopted.—Mr. TUPNELL SOUTHGATE seconded the motion.

Mr. Balderson congratulated the shareholders and directors on the success which had attended the working of the company. As regarded the cottage property he was afraid it was not doing much good for the company. He hoped that before long that cottage property would be entirely written off. He asked whether the royalty had been reduced?

The SECRETARY said that the item of the cottages which the proprietor had classed together were distinct items. There were the cottages at the smelt works, represented by five or six cottages, which originally cost 2001, which were worth 2001, now, but, of course, the leases were gradually running off. In every respect they were as good as when the company purchased them. The CHAIRMAY: And very much better. We have had them done up. The BECRETARY went on to say that the advance on cottages was the balance of a sum which was advanced at intervals to the miners to build their cottages in the village of Leadhills. The company advanced 4001, or 5001, having a lien upon the property, which had been reduced, and there was now only 341. Ifs. 11d. cutstanding at interest of 5 per cent. It had proved a profitable investment as far as it had gone.

The CHAIRMAY said that at the present time the cottages and cottagers were the picture of cleanliness and comfort. He could only wish that the shareholders would visit the property, they would have one of the pleasantest trips they could desire. As regarded the royalties nothing had been done.

A BHABEHOLDEE: How long has the present lease to run.—The CHAIRMAN: 13 or 14 years.

A SHAREHOLDER: How long has the present lease to run.—The CHAIEMAN: 13 or 14 years.
The resolution was then put and carried.
The CHAIEMAN: I may mention that Mr. F. R. Wilson has been our secretary ever since the formation of the company, and a short time since he desired that the secretaryship should be placed in the hands of his son, Mr. F. F. Wilson. The directors readily acquiesced in that wish. Everything has been conducted honestly and fairly, and with every attention to the interests of the company by both these gentlemen. We were very sorry to lose the services of Mr. F. E. Wilson, but we were very pleased to place his son in the position of secretary, and I hope the change we have made will neet with your approval. Hear, hear.)
On the motion of Mr. JOSEPH WHEATLEY, seconded by Mr. BALDERSON, Mr.

Hear, hear.)
On the motion of Mr. Joseph Wheatley, seconded by Mr. Balderson, Mr.
E. Ashmead, was reappointed auditor.
The Chairman said he regretted that Mr. Samuel York, one of the directors, was not able to be present, and he had been requested by that gentleman to tender an apology for his absence.
Cordial votes of thanks were then passed to the Chairman, the directors, Mr. Newbigging and the staff, and the meeting broke up.

ST. JUST UNITED.—At the meeting on Tuesday (Mr. T. S. Bolitho in the chair) the affairs of Mr. R. Boyns, the late purser, were much discussed. It was found that there were 50 shares included in the late purser's 425 belonging to Mr. T. W. Field, and it was decided to notify the trustee in bankruptcy of this fact. A discussion ensued upon a matter of coal, as to whether North Levant owed St. Just United a cargo of coal, of the value of 72l. 3s. This latter item could not satisfactorily be explained. The Chairman said North Levant notify the trustee in bankruptcy of this fact. A discussion ensued upon a matter of coal, as to whether North Levant owed St. Just United a cargo of coal, of the value of 72l. 3s. This latter item could not satisfactorily be explained.—The Chairman said North Levant evidently owed the 72l. 3s.—Mr. Coulson: They do not admit it.—The Chairman: Very well; we shall have tocharge it again.—Capt.Boyns: We cannot settle the point. We have due to lords 276l. I have not received a penny. For instance, if there are more dues than that I shall expect to receive.—Amounts due on calls, received and not accounted for, were then stated to be 422l. 6s. 10d. This, said the Chairman, was to be added to the 52l. 15s. 1d., the difference on the merchants bills, after deducting 200l. out of the 22sl. charged that day. It was desirable that it should be clearly stated that the difference due from the late purser of 92l, was explained by the fact that there were no bills received for an amount of 200l. He did not know whether the purser had paid the money or not. It was also found that the purser had to account for club and doctors' money, and the bank-book showed a debt to the bankets of 1400l.—The Chairman read the accounts for the 16 weeks. These showed the labour cost to be 24fl.; the merchants' bills, 574l.; 22Sl. was charged for coal, of which 25l, appeared in the book, 200l, going in diminution of the claim upon the late purser; making, with other costs, 350l. On the other side there was it in sold (for 12 weeks only)—65 tons 3 cwts.—3530l., a profit of 14l., which was reduced by various charges to 94l.—Captain Boyns said he had received no dues for three years, and he asked for 73l., the minimum rate of 12l., which was reduced by various charges to 94l.—Captain Boyns said he had received an dues for three years, and he asked for 73l., the minimum rate of 12l., which was reduced by various charges to 94l.—Captain Boyns said he had received an dues for three years, and the asked for 73l., the minimum rate of 12l., which was red

TINCROFT .- At the meeting on Thursday the accounts showed a loss on the 16 weeks' working of 2229'., raising the adverse balance to 9601'.; but from this must be deducted the call made in June last of 10s. per share (3000'.), less discount, 2870'.), leaving an adverse balance to be provided for to-day of 6731'. In round numbers the tin had cost about 70', per ton to raise, and the price realisad is about verse balance to be provided for to-day of 67311. In round numbers the tin had cost about 701, per ton to raise, and the price realisad is about 521,—a loss of about 181, per ton. A call of 78. 6d, per share was made. Capt. Teague remarked that the adventurers would be gratified to learn of the slight improvement in the prospect of the mine. More tin had been sold, and the costs were less than in the previous quarter. He was very hopeful as to the future of the mine, and thought an improvement had been foreshadowed that day. He saw no reason why their position should not be as good at the next meeting as it was to-day. Capt. Teague was thanked for the manner in which he had developed the mine.

WHEAL PEEVOR.—At the meeting on Thuzsday the accounts showed a loss on the four months' working of 2859l. It was explained that the small returns for the meeting was owing chiefly to the breakage of the main rod in the beginning of the quarter, which threw them back a month in their credits; consequently they

to the breakage of the main rod in the beginning of the quarter, which threw them back a month in their credits; consequently they had to-day only three months' tin against four months' costs. The lode in the new shaft on Great North Downs main lode is already producing black ore of rich quality, and the agents have no doubt they will quickly open up here a valuable property, and again place the mine in a good position. The workings on this part of the mine have been vigorously pushed on since the last meeting, which has incurred a large expenditure. From the reports of independent agents there is now every reason to expect profitable results. The calls made have been well responded to.

LONDON AND GLASGOW ENGINEERING AND IRON SHIPBUILD-ING.—At the meeting on Thursday (Lord Claud Hamilton in the chair) the Chairman stated that the directors had decided next year chair) the Chairman stated that the directors had decided next year to have a general valuation of their buildings, machinery, &c., in order to see whether they might not now safely set aside a smaller sum out of the annual revenues of the company to the depreciation fund. As stated in the report, they had, at June 30, five steamers building of an aggregate tonnage of 10,450 tons, and since then they had entered into further contracts for the building of two more steamers. They could declare a dividend of only 11. a share, or 4 per cent. In the past four years they had added 30,0001 to the capital account, and thus they were building up the company to a very sound position. In 1379 and the three following years the wages paid by them amounted to much less than the cost of the material, while for 1863 the state of things had been reversed. This fully accounted for their diminished profits, and their inability to make a better return. He thought that the best plan for meeting the arbitrary conduct of the men would be to form a combination of shipbuilders on the Clyde, and he understood that a meeting would be held this autumn to consider the question. He concluded by moving the adoption of the report, which was carried.

NOBELY & EXPLOSIVES COMPANY.—At the meeting in Glasgow on

meeting would be held this attains to consider the question. He concluded by moving the adoption of the report, which was carried.

NOBEL'S EXPLOSIVES COMPANY.—At the meeting in Glasgow on Wednesday (Mr. A. S. Schaw in the chair), it was explained that the object was to consider certain special resolutions to be submitted regarding the borrowing, upon debenture bonds, of any sums that may be required for the purposes of the company, not exceeding in all the principal sum of 120,000. Mr. W. H. Thomson (the secretary) read the circular calling the meeting, and the report by the directors. The Chairman, in moving the adoption of a series of resolutions conferring the borrowing powers recommended in the directors' report, said that in order to raise the additional working capital which was necessary the directors thought the best course in present circumstances was to issue debentures for limited periods of five and seven years, instead of permanently increasing the capital of the company by the erection of additional shares. The directors were prepared to take 40,000. of these debentures, unless the applications from the shareholders were greatly in excess of the amount proposed to be offered. He had only further to assure the shareholders that the affairs of the company were in a satisfactory and sound condition, and with prudent management the directors had every reason to believe they had an excellent and profitable business which would yield good dividends. The resolutions were all unanimously adopted, and the proceedings terminated.

From Mr. John B. Reynolds:—There are no particularly encouraging signs to note this week. The markets have not indicated much strength, and investors are still holding aloof. On all sides much strength, and investors are still notifing aloot. On all sides there is evidence of careful watching, and an unconcealed wish in some quarters for some catastrophe to happen to cause a considerable run down in prices. Holders of good securities, however, remain very tenacious, and hold on to their investments with unconcern; whilst the experienced are so accustomed to panies that it is very questionable indeed if any untoward event should happen on the Continent that we should see a bons fide and serious and hold on to their investments with unconcern; whilst the experiences at so accustomed to panies that it is very questionable indeed if any untoward event should bappen on the Continent that we should see a boan fide and serious fall in prices. Whatever interested parties may wish, the probability is that quotations will remain as at present for some time, excepting those of speculative securities, such as mines, &c., which may vary according to the prospects of the undertakings involved. We say "may vary," because at the time we write discoveries in mines do not materially affect the markets. Two or three of our Cornish mines are improving rapidly, but the prices of the shares do not rise to any appreciable extent. For instance, West Kitty never looked richer than it does now, yet the shares, instead of being at 15½ to 16, as they were not long ago, are no higher than 14t. each. True the market for them is strong, but the illustration holds good not withstanding. A discovery has also been officially an nounced at Trevaunance; certainly one of the n-oat important which has taken place in Cornwall for some years, as it is likely to lead to the opening up of another rich deposit of tin in that property. The shares here, although greatly strengthened, have not shown any substantial advance. It is important, of course, to watch what the prices of the shares may happen to be, especially at a period like the present, when there is little or nothing doing. The progress of mines will tell, and must tell in the not far distant future, for the time is coming when the public will become only too keenly alive to such important facts as those alluded to. In the meantime it is satisfactory to know that dividends will be kept up, and indeed more than sustained in consequence of the very steady, and we may add, ratilefactory state of the tin market.

The public will become only too keenly alive to such important facts as those alluded to. In the meantime it is satisfactory to know that dividends will be kept up, and indeed m

lent securities it immediately gives way when any selling orders of importance are pressed. It is clear that the interests of all those who wish for a return of activity lie in the direction of helping forward legitimate and honest enterprise. As we reminded our readers last week it is not unlikely that new projects will be introduced in consequence of the large quantity of capital for which at present there seems to be literally no employment. Some of these projects will, no doubt, do credit to commercial enterprise, and give profit to those who may be connected with them. On the other hand, if the public rush after every new scheme that is started without carefully weighing the merits a period of activity, such as we look for, will leave no cause hereafter for congratulation. It must not be forgotten that the present stagnation is in some measure due to the frauds which have been palmed off on the British public. It may be doubted whether the promoters of these dubious schemes have themselves received any permanent benefit; but, be that as it may, we may rest assured that it is in the interests of everybody to promote that only which affords fair chances of being remunerative to all.

ANDERTON TIN.-Shares are in demand We understand the progress in forking the mine is good. There is a firm shaft not requiring timber, and the 20 will be reached by the end of the present week. The prospects are very bright and encouraging; and the shares are quoted 1½ to 1¾.

quoted 1½ to 1¾.

FOWEY CONSOLS.—Hall's lode, to which attention has before been drawn, continues to improve rapidly. The result of the crushing on Friday and Saturday last gave an average of 85 lbs. of tin to the ton, and some samples taken from the west end of the lode and assayed by Capt. Penhale, of East Pool, showed 1 cwt. 1 qr. 38 lbs. per ton. Facts like these speak for themselves. The present owners state that their only reason for parting with any portion of this mine is that its supervision and management will interfere with their regular business, so that they were moderate in the value they have placed upon it: 8000t, will not be considered excessive, considering it is a going concern, with all the machinery necessary for 15 or 20 placed upon it: 8000l. will not be considered excessive, considering it is a going concern, with all the machinery necessary for 15 or 20 tons of tin per month. The mine is to be divided into 8000 shares, of 22s each (a very different thing to a limited company with a large capital). The vendors are to receive 4000l. and 4000 shares, and the remaining 4000 shares are to be offered to the public. The big new lode to the north of Hall's lode, which Capt. Josiah Thomas, of Dolcoath, judging from the back of it, believes to be a "champion" lode, may be cut at any moment.

Grasqow Capadow. The directors in a circular to the shares

pion" lode, may be cut at any moment.

GLASGOW CARADON.—The directors in a circular to the shareholders, after stating what work has been done, point out that the result has been a gradual yet satisfactory increase in the output of ore, but that owing to the lower price of copper the value realised is actually less, 594 tons bringing 29244. 8s. 1d. in 1882, while 678 tons have only fetched 27951. 19s. 2d. this year so far. These reduced drawings operate against certain necessary works being prosecuted, and the directors are so satisfied that nothing but advantage can arise from these being pushed forward that they propose to issue 4000l. Preference shares, carrying a cumulative dividend. But as they think it not improbable that they may within a reasonably short time be in a position to pay off the new shares, power will be taken to redeem them within five years, at a premium of 5 per cent. over and above the premium that may accrue. At the meeting on Thursday it was resolved Thursday it was resolved

CORNISH LANGUAGE.—An interesting paper "On the Relics of the Cornish Language" has been reprinted from the Journal of the Royal Institution of Cornwall. Mr. Lach-Szyrma estimates the number of words which have actually survived as being about 200, most of which live on mixed up with their English neighbours of the existing Cornish dialect. In his list of evidences concerning the language of the Celtic inhabitants of Britain, Mr. Lach-Szyrma does not include the place-names of Clydesdale, which nevertheless certainly deserve study as being among the most enduring traces of the not include the place-names of clydesdate, which nevertheless certainly deserve study as being among the most enduring traces of the kingdom of the Strathclyde Britons. There are yet some Cornish MSS. remaining unpublished; and Notes and Queries asks:—Would it not be a work worthy of the Royal Institution of Cornwall to publish them?

publish them?

TRUBNER'S LITERARY RECORD. — The current month's issue of Trübner's American, European, and Oriental Literary Record contains an interesting notice of Dr. G. W. Leitner's History of Indigenous Education in the Punjaub since Annexation and in 1882; Mr. Clements R. Markham's Reply to a Criticism of the Quichua Drama of Ollantay, by General Mitre; and a large amount of general literary intelligence, in addition to the usual lists of new books and new additions.

CASSELL'S PUBLICATIONS.—Archdeacon Farrar's Life and Work of St. Paul, part 21, contains the continuation of the chapter on the last journey to Jerusalem. Knight's Practical Dictionary of Mechanics, part 82, extends from Tool-car to Trephine.

Murray's Complete London Time-Tables, Diary, and Suburban Railway Guide for October have just been issued. They are exceedingly compact, the tables for each line being contained in a book 4 by 2\frac{3}{2} in., and much less than 1-16th in. think, so that nothing could be more convenient for carrying in the vest pocket.

ROCK DRILL JOURNAL.—The revised edition of the first number of this journal has been issued. Some trifling modifications have been introduced, but the general character of the sheet remains unchanged. It is precisely such a journal as an inventor might be expected to produce, and it is cordially to be hoped that it will prove equally remunerative to the proprietor and the printer.

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Mining Correspondence.

BRITISH MINES.

top. This sump is 4 or 5 fms. long, and we have to clear the whole, which makes it more spare than were it only an ordinary sump. We have put in a stull over-

top. This sump is 4 or 5 fms. long, and we have to clear the whole, which makes it more spare than were it only an ordinary sump. We have put in a stull overhead, so as to secure the men in going below.

DEVON FRIENDSHIF.—F. R. Daw, W. Gill. Co. 4. The 42 end, was a test of the shalf, is worth \$2, or 18 the more favourable for driving. The 42 end, west of this shalf, is worth \$2, or taken for in ore. Richards stope, in the back of this level is worth 104. per fathom for arsenical mundie and \$2. See refathom for this ore. Richards stope, in the back of the 30, west of Bennett's shalf, is worth \$2, per fathom for copper ore. Ployd's stope, in the back of this level, is worth 71, per fathom for carsenical mundie and \$2. per fathom for this level is worth 104. Per fathom for this level is worth 104. per fathom for this level is worth 104. per fathom for arsenical mundie and \$2. per fathom for this level is worth 104. Per fathom for district of the stope west of Ladder wines, east of Bennetis' engine-shalf, is unface work progressing salifation of a same and the same proper salid for the same for t

this shaft are without much alteration. The stope in the back of the adit is worth 7t. per fathom.

EAST DARREN.—T. Garland, Oct, 3: In the 92 end west we are cross-cutting north, in ground chiefly composed of beds of grit, hard for exploring. In the 80, west of stope, the end is all in lode, yielding branches of lead ore, worth 1½ ton per fathom. In the stopes over the 92 and 80 the lode varies from 3 ft. to 6 ft. wide, yielding on an average 1 ton of lead ore per fathom. We have an abundant supply of water for drawing and dressing, which are being pushed forward, and we sampled yesterday (Tuesday) 28 tens of silver-lead ore for sale on the 16th inst.

EAST UNY.—Wm, Hooper, Oct. 4: The lode in the 92 west on Davis' lode is 3 ft. wide, producing some good stopes of some progress a requising looking lode.

EAST UNY.—Wm, Hooper, Oct. 4: The lode in the 92 west on Davis' lode is 3 ft. wide, producing some good stones of copper ore; a promising looking lode. In the rise in the back of the 82 on Davis' lode the lode is from 2 to 3 ft. wide; worth 1 ton of copper ore per fathom. No. 1 stope in the back of the 82 on Davis' lode is worth 2 tons of copper ore per fathom. No. 2 stope is worth 1½ ton of copper ore per fathom. In have set a pare of men to drive the cross-cut north of Davis' lode at the 80 fm. level to intersect the Great Flat lode. We have working nine tribute pitches, varying from 5s, to 13s, 4d, in the 11. No particular change in any other part of the mine.

Hinton Correspondence.

PACE HOLDS III.**

A SERIOUS III.*

A SERIOUS III.*

A SERIOUS III.*

A SERIOUS III.

**A SERIOUS III.

parcel (37 tous 10 cwts.), realised 143%. 8s. 9d. No. 2 parcel (20 tous) realised 20%. No. 3 parcel (computed), say, 85%.

GREEN HURTH.—Jas. Polglase, Sept. 27: The 44 end north is improving, worth 2 tons of ore per fathom. We naturally expect a richer vein in a fathom or two, judging from the level above. In No. 1 stope, south from No. 1 winze, the 44 is worth 2 tons per fm. No. 2 stope from No. 1 winze is worth 6 tons per fm. No. 3 stope, north of No. 1 winze, is worth 5 tons per fm. The rise in back of 44, south of 5 was shaft, is holed; this will open another good stope, and will enable us to drive the 44 end south. The stope in the back of the Standage are now driving north on what we think is No. 2 vein. Rise in back of 30 is without change. The wheel is doing good duty, keeping the water easily. Dressing going on as usual.

driving north on what we think is No. 4 year. Asset in where easily. Dressing change. The wheel is doing good duty, keeping the water easily. Dressing going on as usual.

GREAT WEST OHIVERTON.—John Curtis, Oct. 2: In the 62 west the lode is split, each part producing lead and letting out more water. There is no other change to notice in the mine since my last report.

GUNNISLAKE (CLITTERS).—John C. Seccombe, Chas. W. Seccombe, Oct. 3: The lode in the 236 east is 4 ft. wide, composed of spar, peach, and cocasional stones of copper ore, but not enough to value. In this level west the lode is looking more promising than for some time past, and ought soon to be producity. The lode in the 224 west is poor. The lode in the 1212 east is also poor. In this level west the lode is worth 71. per fathom. The lode in the 200, both east and west is unproductive at present. The lode in the 188 east is worth 35. per fathom; a very fine looking lode. In this level west the lode is producing saving work for copper ore. The rise in the back of this level west is worth 64. per fm. In the 176 west we consider we are through the piece of disordered ground, and have put the men to drive south, as we think there is a better part of the lode standing in that direction. The lode in the 184 east is worth 64. per fathom. The lode in the in back of this level west worth 65. per fathom. The lode in the in back of this level is worth 76. per fathom. The lode in the in back of this level is worth 76. per fathom. The lode in the continue to yield about the usual quantity of copper ore.—Crease's South Lode: There is no change to notice; the men are making fair progress in driving. We sampled on Friday last 176 tons of copper ore of about the usual quantity.

lode in rise in back of this level is worth 7t, per fathorm. The stopes and pitches throughout the mine continue to yield about the usual quantity of copper ore.

—Crease's South Lode: There is no change to notice; the men are making fair progress in driving. We sampled on Friday last 176 tons of copper ore of about the usual quantity.

HEALETIELD.—Jno. Trelease, Sept. 23: I am pleased to inform you that better progress has been made in the sinking of Whitwell shaft this last week. We have met with some good samples of lead ore in the last fathom of sinking which come from a west string that is now crossing the shaft. There is no particular change in the mine to make note of this week. The rise in the back of Snecess level is now more sparry than it has been with spots of lead intermixed throughout the vein, but not suificient to value. We are not through the large run yet at the Derwent level, it is crushed altogether at present.

HEROSFOOT.—P. Temby, Oct. 4: The lode is intersected at the 175, and so far as yet seen it is a fine looking one, 20 in. wide, and yielding silver-lead ore of excellent quality, and worth full 10 owts, per fathom. We have commenced to sink a winze on its course, where intersected to communicate with the rise over the 190 as soon as possible for ventilation, &c.; when this is done we shall open on its course north and south. The lode in the rise and stopes is still worth to the points of operation to usughout over the of silver-lead ore per fathom. All other points of operation to usughout over the of silver-lead ore per fathom. All other points of operation during the past week 5 ft.; from present indications it would appear that the lode is not far off, and lately some capel has been neivine. All other points of operation to usughout over the point of t

engine-shaft for tin, at 15t. and 17t. per fathom respectively. The timber around scorrier Consols engine-shaft was decayed badly, and in order to prevent serious lets the men are now engaged in newly collaring this shaft. The carpenters are progressing favouslifing walls for ironyard, &c. Since intersecting these tin has at this comparatively shallow depth well-known authorities speak highly of the value of this part of the property, and we strongly advise continuing the deep adic rose-cut north to intersect other lodes which we have before referred to. Show, which makes us the more anatous to extend operations.

OKET FOR—H. Bullord, J. Bodda, Oct. 4: The new shalt east is down 7 fms. 4 to 5 in below the 80, and is set to sink to nine men, at 21t. per fathom, The 10tel in the bottom of the shaft still continues to look well for tin. The 50 end east is set ort. We have started a winze in the bottom of the 50; set to four contact at 10t. 10t. per fathom, and the lode is looking well both for aresine and itin. No. 1 stope in the back of the 80 is set to four men, at 3t. 15e, per fathom; itin. No. 1 stope in the back of the 80 is set to four men, at 3t. 15e, per fathom; itin. No. 1 stope in the back of the 10tel producing 5 tons of aresinelat ore and fath quality tinskiff. No. 3 stope in the back of the 10tel producing 5 tons of aresinelat ore per fathom. No. 1 stope in the back of the 10tel producing 5 tons of aresinelat ore per fathom. The 10tel producing 5 tons of aresinelat ore per fathom. The 10tel producing 5 tons of aresinelative per fathom. No. 2 stope not able to set: sides bad, work to the 10tel producing 5 tons of aresinelative per fathom. The 10tel producing 5 tons of aresinelative per fathom. No. 2 stope in the bottom of the 50 is set to four men, at 5t, per fathom; to the 10tel producing 5 tons of aresinelative per fathom. No. 2 stope in the bottom of the 50 is set to four men, at 5t, per fathom; the 10tel producing 5 tons of aresinelative per fathom. No. 2 stope in the bottom of the 50 is set to set

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of old sump shaft, is without change, still of a very favourable nature for the production of copper ore. The lode in the adult level, west of old sump shaft, is practically an experiment of the production of copper ore. The lode in the adult level, west of old sump shaft, is practically an experiment of the production of copper ore. The lode in the adult level, west of old sump shaft, is practically an experiment of the production of the p

quartz, peach, and mundic, and worth for tin 15t. per fathom. We have 20 men employed in stoping in the back of the 182, 172, and 160 fm. levels; the different stopes are worth on an average 13t. p. r fathom, each stope working at the average price of 3s. 6d. per ton of stuff. There is no alteration in the tribute department this time. The machinery throughout the mine is working well.

WYE.—J. Kitto and Son, Sept. 29: During the past month the sinking of the new shaft has been continued uninterruptedly by nine men, and good progress has been made. The shaft is now down 8½ fms. below the 58, and we expect to sink it the necessary depth for driving out a new 70 in about six weeks from this date, when we shall cross-cut to and open on the lode, from which we hope to obtain very satisfactory results.

YSTWIFH. —J. Kitto and Son, Sept. 29: We have resumed and are making good progress in driving the adit cross-cut south, which at present is passing through a compact stratum of clay-slate, in every respect congenial for the production of a lead ore, and similar to the rock accompanying the richest lodes in this district. We are, therefore, of opinion the intersection of the lodes whigh now stand unexplored before this end is a very promising and important trial, and one that will in all probability result in laying open a profitable and permanent mine; we shall, therefore, push on the cross-cut towards the desired object by the rock-drills and a full set of men as fast as possible.

THE PERRANZABULOE MINING DISTRICT.

For many months past various correspondents of the Mining Jour-nal have directed attention to the attractions offered to capitalists by the mines of the Perranzabuloe district; and the improving prospects of mining enterprise generally has been taken advantage of to bring forward a promising undertaking—the Duchy Peru Mines—as the first step to restore the activity and prosperity for which the locality was celebrated. It appears from an interesting report of Professor Kinahan, of the Royal College of Science, Dublin, that the property is about eight miles from the city of Turo, and about a mile from is about eight miles from the city of Truro, and about a mile from the rising town and shipping port of Newquay, and he explains that the setts constituting the property are the Great Peru sett, to the west of the property, the Duchy sett to the south, and the Great North Shepherd's sett to the east of these two. Each sett is held under lease on favourable terms, and the whole embraces an area of about 500 acres of good mineral ground. The country rock is killas, or talcose slate, through which several east and west elvans run. The chief lodes are a series of north and south lead lodes, which produce large bunches of silver and silver ores in certain places. Four of these lodes have been proved to pass through the Duchy property, through which the Great Perran iron lode also runs, making an important series of intersections with the north and south lodes, where valuable deposits have been found. In this extensive lode several valuable shoots of chalybeate (spathose iron ore) and blende (sulphide of zinc) have been proved, some of which at a moderate depth are found to contain large quantities of argentiferous galena. The main branch of the Cornwall Minerals Railway runs through the property, and the dressing-floors of the Duchy Mine are connected by an inclined tramway with the line, and are thus placed in direct communication. is about eight miles from the city of Truro, and about a mile from and the dressing-floors of the Duchy Mine are connected by an inclined tramway with the line, and are thus placed in direct commution with the ports of Newquay on the north and Fowey on the south coast. The Mexico lode passes through the western portion of the property, and on it the first silver mine worked in Cornwall was opened about 1788, which proved to be extraordinarily rich in native silver and argentiferous galena, especially at its intersection with the elvan towards the north-west boundary of the Peru sett. On the southward extension of the lode a large deposit of rich argentiferous galena and native silver was found. Trebellan Mine was opened on this lode to the north at its intersection with an east and west elvan. Here some parcels of ore produced upwards of 7002, per ton.

elvan. Here some parcels of ore produced upwards of 7002, per ton.

From this it would appear that there is an extensive field for enterprise in this district, and it may be assumed that with the necessary capital and good management a permanent and remunerative business may be established. It is mentioned in the report of Captain Phillip Argall that hitherto the principal mining overstions have been confined to the Durch sett where an engine report of Captain Phillip Argall that hitherto the principal mining operations have been confined to the Duchy sett, where an engine-shaft has been sunk to a depth of 80 fms. from surface, proving an extensive shoot of spathose iron ore, averaging 3 fms. wide and 10 to 15 fms. in length; the ore is of first-class quality, and superior to any found in the great lode; the shoot in the shallow levels, being almost pure carbonate of iron, is found in depth at the 70 and 80 fm. levels to be mixed with small veins and stones of silver-lead, which are found to increase as depth is attained. This would go to show that the immense mass of iron ore in this great shoot is in depth gradually being replaced by the more valuable mineral—silver-lead. Referring to the various deposits of the Peru sett, Captain Argall states that each of them produced native silver and argentiferous galena that brought a very high price. Various caunters can be seen in the railway cuttings and elsewhere that will intersect the Mexico lode in new ground, and we may fairly assume that rich and valuable deposits will be found at these points. The Duchy Mines are well provided with machinery, both for the drainage of the mine and hauling and dressing the ores. The dressing-floors are well laid out and supplied with the best modern dressing machinery, and a large sawmill is attached for cutting the timber required for the mine, while the surface generally is complete with all necessary buildings sawmill is attached for cutting the timber required for the mine, while the surface generally is complete with all necessary buildings required. In conclusion, he adds that the Duchy Mine setts (either of which is a large mine in itself), with their numerous north and south lodes, rich in silver, their various caunter lodes and elvans forming important junctions and intersections, the great length (3 mile) on the course of the iron lode, with its shoots of lend, blende, and iron ore, show the property to be a very valuable one, and one that only requires a moderate capital to open out its resources, which, with proper development, would long continue not only a considerable source of profit to the investors, but a creat became only a considerable source of profit to the investors, but a great boon

only a considerable source of profit to the investors, but a great boon to the neighbourhood.

It is to develope the property thus favourably reported upon that the Duchy Peru (Limited), with a capital of 50,000%, in shares of 1%, each, and the prospectus of which will be found in another column, has been formed under the auspices of the Home Mines Trust (Limited), which appears thus far to have been exceedingly fortunate in its selection and investments, since only a few days since it declared the very satisfactory dividend of 20 per cent. per annum upon the year's operations. It is mentioned that the company will acquire an exceptionally rich property, its native silver and silver-lead lodes forming numerous junctions with the great champion lode of the district, thereby practically ensuring very high dividends, and the chief features are summarised as—the acquisition of three large properties in the richest silver-lead producing district in England; that the silver-lead from various points has realised the extraordinary price of from 700% to 800% per ton, while about 5% or 6% per ton is considered sufficient to raise and bring it to market; that the company takes over a "going concern," on which about 70,000% has been expended, replete with the most modern machinery, and producing large quantities of mineral; and that to make it one of the foremost mines in Cornwall it is estimated only a small additional amount will be required. Few undertakings commence with greater promise, and there is no apparent reason why, with ordinary good for the additional amount with a considered to the realised. mise, and there is no apparent reason why, with ordinary good for-tune and judicious management, those promises should not be realised.

ARIZONA AND NEW MEXICO .- The vast resources of this richest country under the sun are, says the Albuquerque Journal, being steadily developed. Many millions of dollars are annually extracted from its mines and shipped away to swell the wealth of the com-mercial marts of the world. Upon a thousand hills the seams and ledges, teeming with metals, are yielding their treasures to the energy and industry of man. Arizona has the richest copper and some of the richest silver mines in the world. Gold is found everywhere. Iron, and every other metal useful in the arts and manufactures of the world is produced in varying quantities. Its rich and fertile soil is made to yield agricultural products equal to the needs of the inhabitants, with a margin to spare for export. The output of bullion from Arizona mines in 1882 was nearly \$12,000,000, and it is probable that the current year will show a largely enhanced yield. But one thing is needed to ensure an immensely increased yield of silver and convert—the exercise of concentration and reduction works at and copper—the erection of concentration and reduction works at convenient points. The erection of smelting works at Tucson, Benson, Casa Grande, and other points contiguous to the mines carrying low grade ores—of which there is an unlimited supply throughout the Territory—would bring into immediate prominence and productiveness thousands of mines that are now lying fallow. For this purpose capital from abroad is needed. There is a better field for investment to-day in Arizona, in the enterprise suggested above, than

TO THE METAL TRADE.

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The Mining Market: Brices of Metals, Ores, &c.

METAL MARKET-LONDON, OCT. 5, 1883.

	d.	TIN. 2 s. d. 2 s. d.
Pig, GMB, f.o.b., Clyde 2 70	-	English, ingot, f.o.b 97 0 0- 98 0 0
, Scotch, all No. 1 2 7 9	-	" bars " 98 0 0- 99 0 0
Bars Welsh, f.o.b. Wales 5 7 6	-	, refined 99 0 0-100 0 0
. in London . 5 17 6		Australian 94 7 6- 95 0 6
, Stafford., , 7 2 6- 7		Banca nom.
., in Tyne or Tees 5 15 0- 5 1	7 6	Straits 94 7 6- 95 0 0
Swedish, London 9 10 0- 9 1	5 0	COPPER.
Rails, Weish, at works 5 76		Tough cake and ingot. 65 10 0- 66 10 0
Birets, Staff., in London 5 5 J- 8 1	0 0	Best selected 68 10 0 69 0 0
Plates, ship, in London . 8 10 0- 8 1	5 0	Sheets and sheathing. 73 0 0-75 0 0
Hoops, Staff., 7 0 0- 7	5 0	Flat Bottoms 76 0 0- 78 0 0
At the tone, Ethini, in some o se	0 0	Wallaroo 68 0 0- 63 10 0
BTEKL,		Burra, or P.O.C 67 10 0- 68 0 0
Bugiish spring 12 0 0-18	0 0	Other brands nom. 65 10 0- 66 10 0
cast30 0 0-45	0 0	Chili bars, g.o.b 62 7 5- 66 15 0
Bwedish, keg15 0 0		QUICKSILVER.
, fag. bam15 10 0		Flasks, 75 lbs., war 5 5 0
Rails at works 4 10 0- 4 1	5 0	PHOSPHOR BRONZE.
" Light, at works 6 5 0	-	Alloys I., II., and IV £114 0 0
LEAD.		., VI. and VII 135 0 0
English, pig, common., 12 7 6-12 1	0 0	XI., Duro A, Duro B 113 0 0
" L.B12 15 0-12 1	7 6	BRASS.
	2 6	Wire 644
sheet and bar13 76		Tubes 9
pipe	-	Sheets 71/4 -
,, red16 C 0-		Yel. met, sheath, & sheets 515/16-61/d.
	0 0	
patent shot15 15 0		TIN-PLATES." per box.
B. anish	9 0	Charcoal, 1st quality 1 10-1 20
Metal per cwt		2nd quality 0 19 6- 1 0 0
Ore 10 percent per ton.	-	Coke, 1st quality 0 17 0- 0 17 6
Old to ber cents her com	-	,, 2nd quality 0 16 0- 0 17 0
SPELTER.		Canada Staff or Gla
	-	at Liverpool
		at Inverpool
		14 × 10
Sheet zine19 0 0-	-	
* A t the works, is, to is, 6d, per	bot	tless for ordinary: 10s, perton less for

* At the works, is, to 1s, 6d, per box less for ordinary; 10s, per ton less for Canada; 1 X 6s, per box more than IC quoted above, and add 6s, for each X, Terne-plates 2s, per box below tin-plates of similar brands.

Canada; 1X 58, per box more than IC quoted above, and add 58, for each X. Terne-plates 28, per box below tin-plates of similar brands.

REMARKS.—The markets for the various metals have continued quiet, and prices have tended slightly in favour of buyers, who, however, have not been very ready to avail themselves of the easy rates. In the first week of a new month the attention of the trade is naturally directed to the statistics which then come to hand, and here we may get some insight into the easy tendency of prices this week, for in all instances do the figures come out more or less unfavourably. At the close of last month buying appeared as though it would not unlikely develope into activity, more for speculation, however, than for the general wants of the metal trade; but even where this was the prominent and characteristic feature there has now been a manifest change made, and not only have buyers withdrawn from the market, but have also in instances somewhat pressed sales, and thus caused prices to recede. This is a very natural course for recent operators to have adopted, for unfavourable statistics almost all round are features difficult at all times to contend with. They point to heavy supplies or bad deliveries, or perhaps both; they give the impression that the business actually done has been more speculative than genuine, and further show the markets to be more overweighted, which will, in all probability, necessitate a longer period to elapse before any real and sensible recovery does take place. However, while statistics taken in the main are unsatisfactory, yet the Locroses shown to have been made to stocks during the month of September has not been very large in any metal. In Iron the largest increase has been made, but as the stocks of iron are always much heavier than those of other metals the increase cannot be reckoned proportiosately heavy.

In these general remarks of the various metals it is interesting to note that it is the same cause that has been the means of augmenting the public st

would seem if the statistical position of the markets is to be improved deliceries must increase, for there is nothing to show that suppliers have any intention whatever of custalling supplies.

COPPER.—This week the copper market has been very dull, and prices have tended against holders. The market was weakened at COPPER.—Ins week the copper market has been very duil, and prices have tended against holders. The market was weakened at the commencement of the week by the statistics which were issued for the month of September, when the total visible stock was announced as 49,695 tons, against 48,735 tons on Aug. 31, being an increase of 960 tons. This naturally damped the tone and depressed the market, but the feeling somewhat revived when the Chili charters for the latter half of September were advised as only 1200 tons. This feature having about counterhalanced the adverse effect of heavy stocks the market until yesterday remained fairly steady, but with next to nothing doing. Buyers refuse to come forward, and holders held to their stocks hoping that buyers would soon come into the market. But yesterday they were no longer able to sustain prices, and Chili bars receded fully 7s, 6d, per ton in value, but without forming any inducement to buyers to make purchases. It is the demand for Chili produce that is so much depressed at the present time, and this arises from the absence of any feature to encourage speculation. On the contrary, operators find that nearly everything is against them.

Taking, for instance, the Chili statistics it is found that the imports during the last fortnight of last mouth were 1798 tons, and the deliveries only 643 tons, which makes the total visible stock of that particular description in first and second hands in Liverpool and Swansea 27,808 tons, being an increase of 1155 tons. Again, if we take the imports of other kinds of copper for the same period they will be seen to be very heavy—2543 tons, while the deliveries were only 1755 tons. Such figures are quite enough to discourage operators, to induce holders to press sales, and to make regular buyers limit their purchases as much as possible. It is the same old adverse feature which has for so long depressed

the markets, and whilst over and excessive production continues the prominent, if not the main, feature in the market, it is hard to know from what source prices are to derive their needed support.

IRON.—This market remains very dull, and without much change. A few works, however, are reported fairly well off for orders for consumption, but for shipment there is very little doing. The trade taken on the whole is in anything but a satisfactory state, and the low prices that are being realised appear to be very unremunerative, for in not a few cases are the works closing, owing both to a scarcity of orders and to the very low prices that can only be obtained. In addition to this, there are wages disputes disorganising the markets and unsettling the whole trade. Prices must be reckoned merely nominal. Some sellers are willing to accept almost any prices rather than allow what orders there may be pass by them: but others, on the contrary, prefer to do only a limited business rather than accept the present very cheap price. Under such circumstances, the advantages of making purchases at the present tery cheap rice. Under such circumstances, the advantages of making purchases at the present tery uncertain, yet with such extremely low prices sellers are not likely to accept tree such circumstances, the advantage of making purchases, and should any unexpected demand arise prices would doubtless very quickly advance, and more particularly if the price of fuel continues to advance. The statistical position of the market has not improved; but, on the contrary, shows the public stock to have been further augmented, that in Giasgow last month showing an increase of 2717 tons, and in Middleshor each for 63,292 tons.

There is only a small business doing in makers' Iron, and prices are without change. The shipments last week were smaller than what they have been of

In Glasgow there are warrants in circulation for 564,350 tons, and in Middlesbor egg in 63,292 tons.

There is only a small business doing in makers' iron, and prices are without change. The shipments hat week were smaller than what they have been of late, and also compare unfavourably with those for the corresponding period of late, and also compare unfavourably with those for the corresponding period of late, and also compare unfavourably with those for the corresponding period of late, and also compare unfavourably with those for the corresponding period of late, and also compare unfavourably with those for the corresponding period of supply is necessary to give relief to the unrivet. The Glasgow warrant market opened on Monday with a strong tone, and an extensive business was transacted up to 46s. 9½d.; but this advance was not maintained, and the price receded before the close of the day, and on Tuesday there was a further pressure to sell, and a large business was done down to 46s. 3d.; but a slight raily afterwards ensued, and the market closed at somewhat above the lowest point. On Wednesday the market again took an upward turn, and various transactions were done up to 46s. 7d., and yesterday the business done was of an extensive and good character, and the price was advanced to 46s. 10½d., at which there were buyers, while the closing figure this afternoon is 47s. The shipments last week were 13,238 tons, against 15,023 tons for the same time of last year, hele of this year 433,614 tons, against 485,149 tons for the same time of last year, and 441,851 tons for the similar period of 1381. There is one furnace less in blast, the total now being 114; but the public stock has been further increased, and amounts to 583,522 tons, against 587,275 tons last week, being an increase of 1247 tons

441.851 tons for the similar period of 1831. There is one furnace less in blast, the total now being 114; but the public stock has been further increased, and amounts to 585,522 tons, against 587,275 tons last week, being an increase of 1247 tons. Imports of Middlesborough plg-iron into Grangemouth last week were 4815 tons, against 7485 tons for the corresponding week of last year, or a decrease of 2670 tons, and which leaves a total increase for the whole of this year, compared with last, of 24,231 tons. The Middlesborough market is said to be steady, and but little fresh business has been transacted. The principal business that has been done in No. 3 has been at 392, buyers refusing to pay more, except in isolated cases and for special brands. The speculative enquiry is quite dormant, and very few forward purchases are made, notwithstanding that quotations range from 6d. to 9d. below those for cash. Warrants are offering at 383, 10½d., and the shipments last week were over 20,000 tons, and those for the whole month of September exceeded 94,000 tons; and naturally these heavy dolivering give a good deal of support to the market. The manufactured trade keeps steady, and bars are quoted at 5.1 f.s., angles at 52, 10s, to 52, 12s, 6d., and shipplates at 62, 2s, 6d. per ton. According to advices from Wolverbampton, prices are somewhat strengthened by the colliers' sigitation for increased wages.

Pigs have had a steady sale, and Lincoinshire qualities are quoted at 50s., Derbyshire at 47s, 6d. Northamptonshire at 46s, 3t. For consumption there is a large output of finished iron, and common bars rule from 6d. 2s, 6d.; at signs are quoted at 61, 5s., hoops at 6d, 10s., and sheets at 8s, 5s, for doubles and 9d. 5s, for trebles. The demand for sheets is principally for home consumption, and also for the Indian and Canadian markets. The Birmingham market has displayed more favourable features, and a better feeling has arisen owing to a decision to establish the present rate of wages until the end of the year. It staffo

SPELTER.—The market is very firm at 151. 10s. for ordinaries and 15l. 15s. for specials. A further rise is expected, as the demand for sheet zinc has followed that of spelter.

LEAD remains quiet at 12l. 2s. 6d. to 12l. 5s. for Spanish, and 12l. 7s. 6d. to 12l. 10s. for English.

STEFF, beens dull and prices all round are altered.

STEEL keeps dull and prices all round are altered.

TIN-PLATES.—There is a fair demand, but wasters continue very arce. In prime cokes a moderate business is still doing at rather

QUICKSILVER has been in good demand at the reduced price of 51. 5s., which the importers accepted at the beginning of the week, and has now touched a lower figure than was ever known before.

The Mining Share Market has been moderately active this week, and a fair amount of business transacted in general mines; but prices have not in all cases been maintained. The mines dealt in have included Wheal Crebor, Dolcoath, Devon Great United, South Devon, Prince of Wales, Parys, Gunnislake (Clitters), West Kitty, Devon Consols, Leadhills, Bratsberg, and a few others.

TIN.—This time last year Straits tin was 1071. 5s. per ton; it is now about 941, and stocks have rather increased than otherwise. The stocks in hand at the present time are given at 15,583 tons; while in August they were 15,498. In the corresponding period of last year the stocks were less by 800 tons. In August the deliveries were 1948 tons, September, 1884 tons. These figures alone do not lead to the supposition that tin may rise in price; but it is to be hoped that it may do so ere long, as the consumption is largely increasing in America. In shares there is very little doing, and prices for the most parts are merely nominal.

Blue Hills are quoted, \(\frac{1}{2}\) to \(\frac{3}{4}\); Carn Brea, 4\(\frac{1}{2}\) to 2\(\frac{3}{2}\); North Blue Hills, 1s. to 2s.; Polrose, \(\frac{1}{2}\) to 1\(\frac{3}{4}\); Os the Significances, 9 to 9\(\frac{1}{2}\); West Basset, 4\(\frac{1}{2}\) to 5; West Kitty, 1\(\frac{3}{2}\) to 2\(\frac{1}{2}\); South Frances, 9 to 9\(\frac{1}{2}\); West Basset, 4\(\frac{1}{2}\) to 5; West Kitty, 1\(\frac{3}{2}\); to 1\(\frac{1}{2}\); West Peevor, 3 to 3\(\frac{1}{2}\); Wheal Agar, 14 to 14\(\frac{1}{2}\); Wheal Basset, 3\(\frac{1}{2}\) to 4; Wheal Kitty (St. Agnes), 1 to 1\(\frac{1}{2}\); Wheal Uny, 2\(\frac{1}{2}\) to 2\(\frac{3}{2}\); at the meeting a loss was shown on four months' working of 1866\(\hat{1}\), and a call of 10s, per share was made. The tin sold (74 tons) realised 3825\(\hat{1}\), and the agent's report was more favourable. Wheal Peevor, 2\(\frac{1}{2}\) to 3\(\frac{1}{2}\); at the meeting the accounts showed a loss on four months' working of 2859\(\hat{1}\), and a call of 1\(\hat{1}\) per share wa

working of 2859L, and a call of 1L per share was made. Owing to a breakage, only three months ores were credited. The discovery at Great North Downs part of the mine is such, the agents think, as to leave little doubt of opening up a valuable property.

Tincroft, 6½ to 7½; at the meeting here a call of 7s. 6d. per share was made. The loss on four months working was 2229L, and a debit balance of 6731L. The tin sold, 143 tons, realised 7441L. Wheal Grenville, 6to 6½; at the meeting here a profit was shown of 736L 12s. on the quarter, and a balance in hand of 1086L. West Frances, 1½ to 2½; the 174 west, on flat lode, looks like coming into a bunch of ore. Trevaunance, 2½ to 2½; the lode discovered in the 55 is worth 15L per fathom for copper. New Trumpet, 1 to 1½; Tresavean, 7s. to 9s.; Goodevere, 1 to 1½; South Crofty, 6 to 7.

COPPER mines have been moderately dealt in, with an upward tendency in several where improvements have taken place. At the

COPPER mines have been moderately dealt in, with an upward tendency in several where improvements have taken place. At the Cornwall Ticketing on Thursday the standards for ore remained stationary; produce, 7; standard, 93%. 2s. 6d. Bedford United, 1½ to 1½. Devon Great Consols have advanced to 3, 3½; the smelting of ore this month is 835 tons, and it is reported that some rich quality copper ore is being raised from the new portion called Watson's, and is likely to open out a new mine. Devon Great United, ¾ to 1; the discovery lately made in the 120 is reported worth 6½ tons per fm., and if this continues the shaft will be sunk deeper. South Devon

United have advanced to \(\frac{1}{2}\), \(\frac{2}{2}\); the agent reports this week that the discovery in Martin's shaft is worth 18!. per fathom. Wheal Crebor have not been quite so firm, the rise of 1l. per share having induced a few holders to realise, the shares leave off \(\frac{2}{2}\) to \(\frac{2}{2}\); the mine is preducing fair quantities of both copper and mundic. West Crebor, 5s. to 6s.; the lode in the 62 west, as far as cut into, is very promising for ore. Prince of Wales, 7s. to 9s.; the points of operation are producing a fair quantity of copper.

Parys Copper shares have been in demand at 2s. to 5s.; a meeting has been called to take into consideration negociations that have being going on for some time, and may, if carried out, result in importance to the shareholders in this mine and lin Morfa Du. Gunnislake (Clitters), \(\frac{2}{2}\) to \(\frac{2}{2}\); Marke Valley, \(\frac{2}{2}\) to \(\frac{2}{2}\). New Caradon, 5s. to 6s., 'New West Caradon, 4s. to 6s.; at the meeting the accounts showed a credit balance of 884. 4s. 1d., and a call of 6s. per share (3001.) was made. The agent reports very encouraging of the prospects. South Caradon (Limited), 1 to 1\(\frac{1}{2}\). West Caradon, \(\frac{2}{3}\) to 5t. 6t. South Caradon (Limited), 1 to 1\(\frac{2}{3}\). West Caradon, \(\frac{2}{3}\) to 5t. 6t. but a call of 1s. per share (6001.) was made. The ores sold and credited in assets 11t tons realised 5831. 4s. 4d. The sale of May ores credited in accounts realised 7421. 14s. 2d. The agent states that deposits of rich copper ore in paying quantities are likely to be discovered, and the shareholders rewarded for their outlay and perseverance. West Seton, \(\frac{2}{3}\) to \(\frac{2}{3}\) South Penstruthal, \(\frac{1}{4}\) to \(\frac{1}{3}\); the did in the cross-cut continues very wet, as though near the lode. Mellanear, 3 to \(\frac{3}{2}\); the sale of ores on Thursday—512 tons—realised 14674. 17s. 6d. New Cook's Kitchen, 2 to \(\frac{3}{2}\); to sale as represent ruinous prices, and the smel

24s. to 26s.
FOREIGN MINES.—This market remains much as last reported. FOREIGN MINES.—This market remains much as last reported. Akankoo are quoted \(\frac{1}{2} \) to \(\frac{1}{2} \), but they appear unsaleable at any price. Alamillos, \(1\frac{1}{2} \) to \(2\frac{1}{2} \), Almada and Tirito, \(\frac{1}{2} \) to \(\frac{2}{2} \), Azia Minor, \(\frac{1}{2} \) to \(\frac{2}{2} \); Australian, \(2\frac{1}{2} \) to \(2\frac{1}{2} \), to \(2\frac{1}{2} \), to \(1\frac{1}{2} \); Partsberg have been weaker, and leave off \(2\frac{1}{2} \) to \(2\frac{1}{2} \), though it is said that better prices are being offered for the ores coming over. California of Colorado, \(\frac{1}{2} \) to \(2\frac{1}{2} \); Callao Bis, \(\frac{1}{2} \) to \(2\frac{1}{2} \), Cape Copper, \(4T \) to \(50 \) ex \(4\tilde{1} \), to \(\frac{1}{2} \); the remittance for August was \(3682 \) ozs. for \(27 \) days with \(40 \) stamps, from \(2000 \) tons of quartz, against \(2060 \) ozs. for \(21 \) days with \(30 \) stamps in the corresponding month of last year. Chontales, \(\frac{1}{2} \) to \(\frac{3}{2} \); Fortuna, \(3\) to \(3\frac{1}{2} \); Frontino and Bolivia, \(1\frac{1}{2} \) to \(\frac{3}{2} \); Eberhardt, \(\frac{1}{2} \) to \(\frac{3}{2} \); Fortuna, \(3\) to \(3\frac{3}{2} \); Frontino and Bolivia, \(1\frac{1}{2} \) to \(1\frac{3}{2} \); Eaperlor of Native Copper, \(\frac{1}{4} \) to \(1\frac{3}{2} \); Inares, \(3\frac{1}{4} \) to \(3\frac{3}{2} \); Mason and Barry, to bearer, \(1\frac{3}{2} \) to \(1\frac{3}{2} \); Mysore Gold, \(1-16\theta \) to \(3\frac{3}{2} \); Mason and Barry, to bearer, \(1\frac{3}{2} \) to \(1\frac{3}{2} \); Mysore Gold, \(1-16\theta \) to \(3\frac{3}{2} \); Mason and Barry, to bearer, \(1\frac{3}{2} \); to \(1\frac{3}{2} \); Mysore Gold, \(1-16\theta \) to \(3\frac{3}{2} \); a very favourable report appears in the mines reports column. Nouveau Monde, \(\frac{1}{2} \) to \(\frac{3}{2} \); at the general meeting, at Paris, on Sept. 28, the report of the Director-Gérant and of the Conseil'de Surveillance were read, and next week.

next week.

Organos Gold \(\frac{1}{2}\) to \(\frac{2}{3}\); Panulcillo, \(6\frac{1}{4}\) to \(6\frac{3}{4}\). Potosi, \(\frac{1}{2}\) to \(\frac{1}{2}\); a telegram from the mines (Sept. 26) states that between 700 and 800 ozs. of gold was remitted for the month. Richmond, 5\(\frac{1}{4}\) to \(6\frac{1}{4}\), and business was done to-day at \(6\). Rio Tinto bonds, 100 to 102 ex \(\frac{1}{2}\); It it o shares, 20\(\frac{1}{2}\) to 21\(\frac{1}{2}\); Ruby and Dunderberg, 1\(\frac{1}{4}\) to 1\(\frac{2}{1}\); St. John del Rey, 90 to 100; Tharsis, 6\(\frac{1}{2}\) to 7; Tolima, 5 to 6. United Mexican, 4\(\frac{1}{4}\) to 5\(\frac{1}{2}\); a sample of silver ore has been received from the company's mines in Mexico, which can be seen by shareholders at the company's office. Western Andes, 5\(\frac{1}{4}\) to 5\(\frac{2}{3}\); the net profit for June and July was 1300\(L\). A dividend of 2s. 6d. per share has been declared.

The Market for Mine Shares on the Stock Exchange has again the Market for Mine Shares on the Stock Exchange has again been fairly active, although some check was naturally caused on Wednesday by the discovery that George Warden, the absconding secretary of the London and River Plate Bank has stolen about 110,000l., of which 70,000l. is represented by securities lodged by customers for safety, and 40,000l. was held by the bank as collateral security for advances. The effect of the discovery was not lessened by the fact of its following so quickly on the publication of the frauds of the accountant Waddell. The immense injury inflicted upon shareholders and/oreditors/alike by itinerant accountants of the Waddell class has constantly been pointed out in the Mining Journal, and figures have more than once been given to show that in the case of winding up public companies' concerns with assets which, had the liquidation been entrusted to men of business, would have given the creditors 20s. in 1l., and left something to return to the shareholders, have had every shilling of those assets absorbed for itinerant accountants' expenses. If competent accountants, permanently engaged, and therefore under proper control as servants, be insufficient to ensure a business being honestly conducted, the occasional visit of an accountant of the itinerant class—whether chartered or otherwise—will never make matters better. Men of the Waddell class afford no security to shareholders against those of the George Warden class; and what is still more alarming is that the Times of Thursday states accurately (on the authority of Giblin v. MacMullen) that there is some question whether a bank is legally responsible to its customers for securities lodged with the said bank for safety if those securities be stolen by the bank's servants from the bank's strong room; but certainly no bank, unless on the verge of liquidation, would attempt such repudiation of responsibility, and the directors of the London and River Plate Bank do not, publicly at been fairly active, although some check was naturally caused on Wedtion, would attempt such repudiation of responsibility, and the di-rectors of the London and River Plate Bank do not, publicly at least, mention such repudiation, which would inevitably ruin the bank. It was ramoured that the fraud was brought to light by the pearly audit; but if this be so it is a serious reflection upon all connected with the management of the bank, as with a proper system of bookkeeping and organisation, such as is confidently believed to be practised in other banks, any abstraction of securities, however banks, any abstraction of securities, however ould have been discovered within a week. The small in value, would have been discovered within a week. The matter is one which, in the interest of joint-stock banking generally,

matter is one which, in the interest of joint-stock banking generally, should be thoroughly investigated.

Our usual telegram from Cornwall this evening says:—The Cornish mine share market has been quiet all the week with few transactions, the principal business being in Dolcoaths, West Kittys, Tincrofts, South Frances, and Carn Breas, the latter mine having receded in price. Although the tin statistics are rather unfavourable, a very hopeful feeling is expressed, and there are several satisfactory features in connection with the tin trade. At Tincroft yesterday a loss of 2229l. was reported, 7s. 6d. per share call being made. Capt. Teague said he was hopeful as to future of mine, or should not have taken so much trouble in developing the property and obtaining a new lease. At Wheal Peevor a loss of 28l. was shown, and a call of 1l. per share made. The prospects of the mine appear more favourable. At Redruth yesterday 767 tons of copper ores realised 2867l., there being no change in the standards. Next sale at Truro Oct. 18, when 2469 tons will be

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effertd. Dolcoath, 664 to 67; East Pool, 404 to 402; South Frances, 10 024; Agar, 14 to 142.

The Home Mines Trust are inviting by prospectus, which will be found in another column, subscriptions for the shares in Duchy Ferr (Limited). The company is formed with a capital of 50,000; I. is alread of the control of the company is formed with a capital of 50,000; I. is alread of the control of the company is formed with a capital of 50,000; I. is alread of the control o

South Devon United are reported to have been dealt in at \$ 10 1, owing, it is thought, to the great improvement in Martin's shaft reported last week, and confirmed in the agent's report this week, as continuing to look well, the lode being 5 to 6 ft. wide, and valued at 187. per fathom.

South Frances, \$\frac{3}{2}\$ to \$\frac{3}{2}\$ the several shafts are being pushed down, and it is expected that at the next levels some rich sections of tin ground will be opened out, from which it is hoped good profits will be paid to the shareholders. A correspondent writes:—"It is of the utmost importance that the manager and staff under him should give daily attention to the interests of the company in seeing that these shafts and levels are opened out with expedition, while at the same time practising every economy in obtaining the best quality of materials, whether coal, iron, steel, &c. The present financial condition of this mine having been attained only at the expense of shareholders in providing the necessary means to put the undertaking in the position it now is."

West Wheal Seton, 9 to \$\frac{3}{2}\$; the agent reports that the lode in the shafts in sinking below the 216 ft. level, and 7 fms. below this level, is worth, for 12 ft. wide, 80l. per fathom. There appears, says a correspondent, to be a general opinion among shareholders that at the forthcoming meeting a call should be made sufficient to clear off all liabilities against the mine up to the day of meeting.

Asia Minor, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; the week's run was \$\frac{2}{2}\$ 0.000 from 308 tons of row with one furnance. During the week have exhipment of \$4\$ tons of silver-lead ore.

Richmond, \$\frac{3}{2}\$ to \$\frac{1}{2}\$; the week's run was \$\frac{2}{2}\$ 0.000 from 308 tons of row with one furnance. During the week the refinery produced doré bars to the value of \$\frac{3}{1}\$ to \$\frac{1}{2}\$ the week's run was \$\frac{2}{2}\$ 0.000 from 308 tons of row with one furnance. During the week the refinery produced doré bars to the value of \$\frac{3}{1}

into the long run of ore ground, continue highly encouraging, being valued at about 10 to 11 tons of lead ore per fathom, and where in the direction driving south the rock-drills are making satisfactory progress. The shareholders expressed their great disappointment at the continued low price of the mineral, and suggested to the directors whether or not some means could not be devised to protect the interests of the company pending some improvement upon the miserable price at present paid by the smelters. It was also suggested that the lords should come forward and lend assistance by a liberal reduction of royalties, seeing the enormous expenditure incurred by the company in providing the extensive plant and machinery for the development of the property during the past few years, and by which the lords have been paid heavy dues. The manager gave a satisfactory account of the property

tory account of the property.

Leadhills, 23 to 31, and business being transacted. At the meet ing reported in another column the proceedings show the highly satisfactory financial condition of the company, as well as the progress made in the development of the mine, and the improvement satisfactory manufactured to the mine, and the improvement gress made in the development of the mine, and the improvement effected in dressing and smelting operations. In addition to the dividend of 3s. per share (3000*l*.), paid in August, 1882, and a further dividend of er share (4000*l*.), paid in June last, the directors

GAS SHARES.—The principal business in these shares, according to this evening's report of Mesers. W. L. Webb and Co., of the Stock Exchange and Finch-lane, has been:—Buenos Ayres, New (Limited), 10; ditto, 6 per cent. Debentures, 95 to 95; Bombay (Limited), 6; Continental Union (Limited), Original, 28 to 29½; ditto, New, 69 and 72, 20½ to 20½;; ditto, 7 per cent. Preference, 27½ to 27½; Commercial Consolidated, 247 to 249; European (Limited), 18½; ditto, New, 14; ditto, New, 9½ to 9½; Gas Light and Coke, A. Ordinary, 194 to 197; ditto, H., 7 per cent. Max., 143 to 144½; ditto, 10 per cent. Preference, 215 to 216½; ditto, 5 per cent. Debenture Stock, 148½; ditto, 4 per cent. ditto, 104½; ditto, 4½ per cent. ditto, 112; Imperial Continental, 231 to 244; Mauritius (Limited), 1½; Oriental, (Limited), 7½; Para (Limited), 25½; Ris de Janeiro (Limited), 24 to 24½; South Metropolitan, A, 259½ to 271; ditto, B, 217½ to 235. Gas stocks very firm, especially the London companies, upon the amalgamation of the Gas Light and Coke with the South Metropolitan, terms of which are now published.

INSUEANCE SHARES have, according to this evening's report of Messrs. W. L. Webb and Co., of the Stock Exchange and Finch-lane, been dealt in as follows:—Atlas, 138½ to 18½; Alliance, British and Foreign, 36½ to 36½; Commercial Union, 17 to 17½; City of London Fire (Limited), 36½ to ½; Employers Liability Assurance Corporation (Limited), 24½; Fire Insurance Association, (Limited), ½; Rock Life, 3½, to 3½; Royal Exchange, 387 to 370; Reilway Passengers, 7 to 7½; Universal Marine, 6½. Insurances dull, and little doing.

TRAMWAYS.—The closing prices of this evening, as quoted by Mr.

little doing.

TRAMWAYS.—The closing prices of this evening, as quoted by Mr.

W. Abbort, of Tokenhouse-yard, are given in tabular form in the last page of the Journal.

W. Abbott, of Tokenhouse-yard, are given in tabular form in the last page of the Journal.

RAILWAY AND GENERAL MARKETS.—Referring to the course of business done-to-day during official hours (11 to 3) Mr. Ferdinand R. Kirk Birchinlane, writes:—Opening: Except the Third Preference, Grand Trunks are again higher, and this stock has been by far the most profitable of any this week. The Ordinary are 22½; second Preference, 95; Third, 51½. Last Friday morning prices were 19½, 92½, and 46½ respectively. Since the dividend announcement the Ordinary have advanced from 17, and the Thirds from 38. It is usual for Grand Trunks to commence to rally in September, and to go on advancing until Christmas, and it may be useful to point out that last December the Ordinary were 25, the Seconds 101, and the Thirds 61. Western of Canada were the over 16, and they are likely to see that price again. Home mining shares have been in good demand all the week, the public are beginning to buy freely, and beginning to buy freely and beginning to buy f

PIG-IRON.—Messrs. W. Conval and Co. (Sept. 29) write:—The market during the greater part of the month was dull and depressed, but within the last few days the tone has changed, and a considerable business has been done. The opening price, 45s. 11/4d., was the highest paid, and the lowest accepted was 48s. 0/3d. on the 21st, closing buyers at 45s. 7d. The stock in store shows an increase of 2717 tons, and now amounts to 588,022 tons, with warrants in circulation for 564,350 tons. The Middlesborough market has been steady, No. 3 being scarcer. The stock in Connal and Co. 's yards there is 69,560 tons, being a decrease of 1931 tons, and there are warrants in circulation for 63,292 tons.

TEN AND LEAD Messra Heavy Rockeys, Soxs, and Co. (Oct. 4) write:

tion for 584,350 tons. The Middlesborough market has been steady, No. 3 being scarcer. The stock in Connal and Co.'s yards there is 69,560 tons, being a decrease of 1931 tons, and there are warrants in circulation for 63,292 tons.

TIN AND LEAD.—Measrs. HENRY Roccess, Sons, and Co. (60ct. 4) write:—Attention has been lately invited to the increase in the world's supplies, and the small expansion of European consumption. Such statistics are absolutely mis-leading unless account be also taken of the recent stride which American consumption has taken. The net result of the relative progress of supplies and demand during the first nine months of 1853, would seem to be that large as is hincrease in the Straits production, it has only served to prevent any further fall in the total stocks of the world. Some think that the position being thus balanced, tin ought barely to maintain present values later on, but there are but few who do not concede that the peculiar position of our London stock may necessitate a very sharp rise meanwhile. Our landed supply on Oct. I was 393 tons, and some dealers assert that nearly 3500 tons of this is firmly held off the market by investors, leaving only some 500 tons at most for the daily turnover of the trade. Orders for Spanish lead were eagerly sought at 12. 2s. for the greater part of September; but just at the close the pressure to sell resulted in 12. 2s. 5d. being accepted. English we quote 12. 8s. 9d. to 12. 11s. 3d., and producers are very reluctant to follow the market, hoping that the long expected change for the better must take place before long.

TIN.—Messrs. FERNCH and SMITH (Oct. 4) write:—The consumption in America is reported to be rapidly increasing, estimates from that quarter giving the deliveries of last month from 1200 to 1400 tons. Large sales have been made here for forward delivery, which appear out of proportion to actual shipments. On the 27th ult. the Dutch Trading Company sold 22,382 slabs Banca at average 57% fl.; 4100 slabs Billitton at average 58% fl.

West Indies, and the P. and O. steamer 65,000t. to Bombay.

Mexico are portions of the original plan of a national railroads in Mexico are portions of the original plan of a national railroad system, which was to consist of three trans-continental east and west and two north and south trunk lines for the country north of the capital city. These trunk lines belt, says the New York Financial and Mining News, the Republic from Tampico to Mazzatlan, from Tuxpan to San Blas, and from Vera Cruz to Manzanillo. The southern system provides for another trans-continental route from the city of Mexico west to Acapulco. The north and south lines strike out from the capital towards El Paso and Laredo, where they connect with the United States system. These plans give every State in Mexico, except the two small and remote States of Campeche and Tabasco, one or more lines, and, more important, gives each one direct railway communication with the capital. Altogether the American companies building railroads in Mexico have put over \$60,000,000 in that country, and have constructed over 1600 miles of completed road. The present mileage includes 1791 miles of American-owned track, of which the Mexican Central owns 839 miles, the Atchison, Topeka, and Santa Fé, 265 miles; the Sinaloa and Durango, 38 miles; the Huntington, 73 miles; and the Mexican National, which is narrow gauge, 625 miles. The English lines consist of 353 miles, and the Mexican roads 635 miles.

SPANISH COPPER.—The statutory meeting was held at the offices yesterday (Colonel Money, C.B., in the chair), but there was a very small attendance. The chairman stated that the leases of the company's properties in Spain had been properly registered in the company's name. He had only to add that the manager at the mines reported that he had reached the mineral at San Vicente, and was

commencing to make copper precipitate. It was also mentioned that a steam-engine and other machinery for each mine was in course of shipment.

BRATSBERG.—We understand that for the next cargo of copper ore to arrive a higher price has been offered than was given for the late sales. This is satisfactory to the company, as also an indication of the firmness of this metal.

TANKERVILLE.—At the general meeting held at the mines on Wednesday there was a strong feeling expressed relative to the holding back of some of the shareholders from subscribing for their proportion of the preference shares, it being absolutely necessary they should do so to enable the mines to be worked properly.

MONESTON MANGANESE.—This mine is opening out splendidly, and quite equal to the expectations of the most sanguine. The miners say that a vast body of manganese is laid open between the 20 and 30, sufficient to give many years' working. The company have now about 300 tons of marketable ore for sale.

GOBBETT TIN MINE.—History is likely soon to repeat itself in this grand old tin mine. A splendid lode, 10 ft. in width, which has only been operated upon to the depth of 20 ft. by ancient workers, will in a few days be cut at 90 ft. deep, and miners who know the property are willing to work it at a tribute of 6s. 8d. in the 1l. A very rich lode, it is expected, will be found.

ST. JUST UNITED.—At the meeting on Tuesday last the accounts showed a profit of 140l. on the 16 weeks' working, having sold 66 tons 3 cwts. of tin for 12 weeks' raising. The Cream Pot lode, in a winze sinking below the 140, is reported to be worth 120l. per fathom; and at the 150 end, driving east and west below this winze, is worth 50l.

EAST LOVELL.—At the meeting at Helston on Saturday last the accounts showed a balance against the mine of 1607l. 11s. 2d. A call of 30s. per 2048th share was made.

HONOUR TO A GEOLOGIST.—H.M.S.H. the Prince of Mantua and Montferrat has been pleased in Council to confer upon the Rev. D. Honeyman, D.C.L., F.R.S.C., the Mantua gold medal; and to add his name to the long roll of worthies ancient and modern—"For geological research and excellence of arrangement in the Canadian Department of the International Fisheries Exhibition" now being held at South Kensington. held at South Kensington.

C. PASS AND SON, BRISTOL,

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Are prepared to INSPECT, REPORT UPON, VALUE, or TAKE the MANAGE MENT of MINES, COLLIERIES, or EnGINEERING WORKS

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made. A few Free Entries to the division of studies (day or evening) are obta a able through the City and Guilds Institute.

M. B. COBB, 29, BISHOPSGATE STREET, LONDON, E.C. PAYING 10 AND 20 FER CENT. CERTAIN. Immense profits and large dividends. See Circular, price 1s. Speculative business opened in Mexican Rails and all leading Stocks of the day.

MESSRS, PENNINGTON AND CO., SWORN BROKERS AND SHARE DEALERS, 13, MOORGATE STREET, LONDON, E.C. BUSINESS in all DESCRIPTIONS of STOCKS, MINING and other SHARES. ESTABLISHED 1869—BANKERS: ALLIANCE (Limited).

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Can SELL the following SHARES at prices annoxed:
75 Almada, 103. 3d.
25 Birdseye Ck., £1 10s.
25 Birdseye Ck., £1 10s.
26 Bratsberg, £2 9s. 6d.
30 California Gold, 14s.
30 California Gold, 14s.
40 Calian Bis, 7s.
41 Canada Bis, 7s.
42 Marke Valley, 8s.
43 Colorado, £2 5s.
43 Colorado, £2 5s.
44 Colorado, £2 5s.
45 Corporation of South 40 La Piata, 14s.
40 Consolidated, 4s. 6d.
20 Colorado, £2 5s.
40 Deven Consolis, £3 4s.
40 Deven Priendship, 3s.
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43 Deven Consolis, £3 4s.
44 Deven Priendship, 3s.
45 East Buse Hills, 5s.
45 East Caradon, 7s. 6d.
40 Prince of Wales, 8s.
40 Colorado, £2 2s.
40 Prince of Wales, 8s.
40 West Crebor, 4s. 6d.
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40 Prince of Wales, 8s.
41 Dillian Wales Aradon, 7s.
42 Dillian

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PURCHASES FOR FORWARD DELIVERY AT SPECIAL PRICES ON RECEIPT OF DEPOSIT OF 20 PER CENT.
BUYER of Tamar, Carn Camborne, Collacombe Consols, and Colombian.
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Date, Mines.

Sept.29—Wemyss......

—Frongoch

— ditto

Oct. 2—Cwmystwyth

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SESSION 1883-84.

COAL MINING DEPARTMENT.

During the ensuing Session a series of Special Lectures upon the Chemistry and Geology of Coal Mining, Mechanical Engineering as applied to Coal Mining, and the Theory and Practice of Coal Mining and Colliery Management, will be delivered by the Professors in Chemistry, Geology, and Engineering, and Mr. John Brown, M.Inst.C.E., F.G.S., the Lecturer on the Theory and Practice of Coal Mining and Colliery Management.

The Course will extend over two years, and will embrace about seventy Lectures in all. These will be delivered upon the evenings of Monday in each week, from Four to Six P.M., or at such other hours as shall be eventually found to be most convenient, during the first term (October to December), and from Four to Five P.M. during the second and third terms (January to June).

The opening Lectures on the Chemistry and Geology of Coal Mining will be delivered by Professor Tilden and Professor Lapworth on Monday, the 22nd of October next, from Four to Five and Five to Six P.M.

Fee for the first year Course, £4 4s. Fee for the second year Course, £3 3s.

Or for each single series of ten Lectures, £1 1s.

These Lectures are intended to meet the requirements of candidates for Certificates of Competency, Proprietors of Coal Mines, Mining Engineers, Mine Managers, and others interested in Coal Mining and Colliery Management. The attention of Candidates preparing for Mining Certificates is especially called to this Course of Lectures, which includes all those subjects directly connected with Coal Mining and Colliery Management in which they have to undergo examination.

GEO. H. MORLEY, Secretary.

L. DE LEZAACK, CIVIL AND MINING ENGINEER, ANTWERP-27, PLAINE DE HESSE-ANTWERP.

BROKER FOR ORES AND MINERALS.

Twenty years' experience as Metallurgical Engineer and as Mineral Agent. Represents the interests of Sellers for the Delivery of Ores at Antwerp. SUPERINTENDS WEIGHING, SAMPLING, ANALYSES, &c.

Notices to Correspondents.

INSTITUTIONS FOR THE IMPROVEMENT AND STUDY OF MINING IN THE UNITED KINGDOM.—Several correspondents having enquired for a list of the above, secretaries or members are requested to forward to the Editor names of the institutions to which they belong, and brief details, that a list may be published in the Mining Journal, Particulars should be sent before Oct. 31.

institutions to which they belong, and brief details, that a list may be published in the Mining Journal. Particulars should be sent before Oct. 31.

NATIONAL SOCIETY FOR THE WORKING OF MINES—"H. S." (Manchester).—It was a French concern, but we do not know whether the shares were ever placed. It is probably defunct, as the last heard of it was several years since. A draft'on the company was sent back, and letters addressed to the company's offices in Paris were returned through the dead letter office, marked "parti." There was a long string of names connected with it, but it is questionable whether any of the persons included in the list incurred any pecuniary responsibility. We do not know why the letters mentioned should be dated from Paris, and posted elsewhere.

FORM OF MAGNETS—"J. L. K." (Stevenage).—There are differences of opinion as to the merits of solid and hollow magnets, but Holtz, than whom no better authority need be desired maintains that solid steel bars do not form so good permanent magnets as tubes, because the core acts as an armature joining the two poles. In experimenting to test his hypothesis he magnetised rods and tubes to saturation, and found that the magnetism of the tube showed an excess of more than 50 per cent. After waiting six months he subjected the same magnets to new tests, in order to find which retained the magnetism best. He found that the magnetism of the solid was to that of the hollow magnets, in one case as 1 is to 2½, and in another as 1 is to 3 nearly. The Gülcher form of arc-lamp is probably the most simple, and the cost of manufacture in its cheapest form must be comparatively triling.

MINERAL CORPORATION OF GREAT BRITAIN—"H. S." (Manchester).—Long since defenct. It was the liquidation between the content of the same magnet of the cost of manufacture in its cheapest form must be comparatively triling.

Mineral Corporation of Great Britain—"H. S." (Manchester).—Long since defunct. It went into liquidation, but we nover heard of any dividend to creditors or shareholders, though we should have been likely to have heard of the former.

of the former.

MICA AND STRATITE.—The names and addresses of large foreign dealers in mica and steatite are required by one who is in a position to place large orders for same at low prices.—E. G.: Westminster.

NATIONAL UNION INVESTMENT COMPANY.—I should be obliged if some correspondent will inform me through the Journal if the affairs of the National Union Investment Company (Limited) are settled up, as at the time they presented a petition to wind up the concern I was a creditor, and as I have written the secretary several times and cannot get an answer from him I should be obliged if you would enlighten me in the matter?—PETER.

BYTATITE.—Can any reader of the Mining Journal tell me the nature of the mineral known among the Germans by this name. I do not see the name in any English book on mineralogy that I have seen.—ENQUIREE.

Received.—"O. P. B." (St. John's Wood): Any reply which you have to make to

Received,—"O. P. S." (8t. John's Wood): Any reply which you have to make to "B. C. D." must be sent in a form in which it can be published. The names and addresses of those whose communications appear in the correspondence columns are never given. All replies thereto, however addressed, are opened by the Editor, and inserted or destroyed at discretion—"In Terrorem"—"W. R. W." (Newquay).

THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, OCTOBER 6, 1883.

BAILWAYS v. CANALS.

The battle of the gauges having long since been set at rest, it needs no very keen perceptive faculty to predict that before very many years have elapsed, the battle of railways v. canals for the carriage of minerals and heavy goods will have to be fought with almost equal tenacity. The commerce of the country has grown to such snormous proportions and the vailway freight are no grown to such equal tenacity. The commerce of the country has grown to such enormous proportions, and the railway freights are so excessive, that trade is considerably hampered by the want of greater and cheaper facilities of carriage. We may rest assured that the railway companies will spare neither exertions nor expense in their endeavours to perpetuate the monopoly which they possess; and whilst they can scarcely be blamed for thus endeavouring to protect their own interest in this respect, it is only right and fair that traders should have the greatest possible facilities in the carriage of goods, and that this carriage should be upon the lowest terms. The threatened competition with railways by canals is only the outcome of the questionable policy hitherto pursued by our great railway companies. They have hitherto exacted the utmost farthing in the shape of freights, and have refused to give more facilities for the carriage of goods. If the various railway companies would only read the signs freights, and have rerused to give more facilities for the carriage of goods. If the various railway companies would only read the signs of the times they would, wherever possible, lay down a separate or special goods line, thereby securing greater safety, quicker dispatch, and reduced fares, and, at the same time, it would prove one of the

most powerful arguments that they are willing and able to provide for every possible contingency. Some of the great trunk railways have already adopted this course, but there must be a general movement in this direction if the ever-growing demands of the great manufacturers and of commerce generally are to be satisfactorily respended to

facturers and of commerce generally are to be satisfactorily reponded to.

The late official enquiry by the Committee of the House of Commons as to railway rates and fares had a most salutary effect in more directions than one. It proved, beyond all doubt, that in many instances some of the railways charged higher rates than the maximum allowed by their special Acts of Parliament; that these rates were even higher now than they were years ago; that higher rates were charged for one description of goods than another; and that lower rates were charged for imported goods than for home produce. Whilst these things were proved beyond the shadow of doubt, the Commission also proved the inability of the traders, in consequence of the want of unity on their part, to successfully fight against the power and wealth of the railway companies. Hitherto the only successful weapon has been competition, and some remarkable instances were cited before the Royal Commissioners of the effect produced by the opening up of rival means of the carriage of goods. The projected canal from Liverpool to Manchester would unquestionably work quite a revolution in the carriage of goods throughout the whole route, and even the mere starting of the project has compelled the railway companies between Oldham and Liverpool to make a reduction in the carriage of goods throughout the whole route, and even the mere starting of the project has compelled the railway companies between Oldham and Liverpool to make a reduction in the carriage of goods to the extent of 25 per cent. Some idea of this reduction may be gleaned when it is stated that Oldham alone pays something like 100,000% a year in railway rates, so that this reduction will save the cotton spinners of that town the very considerable sum of 25,000%, a year. Other trades and manufacturers would receive equally substantial boons in the shape of reduction of freights were the canal carried into effect. Traders, therefore, in the Midland districts will be glad to hear that, although defeated la

prospects of success,

The opinion is gaining strength every day that, for the carriage of heavy goods, canals possess advantages over railways besides that of mere cost of transit. Of course, there are many complaints as to the present working of canals, and these grievances were prominently paraded before the late Royal Commissioners; but the granting of through rates on these canals, as recommended by the Commission, would probably soon bring about a remedy. Those who are most competent to form an opinion believe that the carriage of goods per canal need not exceed \$\frac{1}{2}d\$, per ton per mile; but railways cannot carry goods, as at present conducted, at anything like that figure—indeed, double the price would be a most acceptable figure for the great bulk of the manufacturers.

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great bulk of the manufacturers.

The fact that boats are able to stop almost anywhere give canals
a decided advantage over railways. These facts seem to be far more
generally recognised in commercial circles now than a few years ago;
and we may expect to find the growth of canals far more rapid than
hitherto. In addition to the projected canal between Liverpool and
Manchester, Mr. F. Owens, of Hayes, Middlesex, has launched before the commercial world what is known as "The Great Western
Maritime Ship Canal;" which, however, would have no connection
whatever with the Great Western Railway besides that of competition.
This project consists of cutting a ship canal connecting the Bristol and
the English Channels, and which, if completed, would not only materially shorten the sea distance between the coal basin of South Wales
and the Metropolis, but by breaking up the monopoly now possessed
by the Great Western Railway Company bring about a substantial
reduction in rates, of which, of course, the public would reap the advantage. Mr. Owen has estimated the cost of this canal at upwards
of 3,000,000t. sterling; but large and almost startling as this amount
appears, the sanguine projector quotes statistics to prove that the
more carriage of coals from the Principality would now no less than of 3,000,000*l*. sterling; but large and almost startling as this amount appears, the sanguine projector quotes statistics to prove that the mere carriage of coals from the Principality would pay no less than 12 per cent. upon the outlay. Although we may not be able to endorse all the views of the promoter of this scheme there are no engineering difficulties in the way, and far more chimerical schemes have ere now been carried to a successful issue.

Our continental neighbours seem to realise the value and utility of these capals for more than in England and they are being deve-

Our continental neighbours seem to realise the value and utility of these canals far more than in England, and they are being developed with a rapidity never before known. The latest reports from France is to the effect that very large sums have been voted for the extension of inland navigation and the improvement of maritime ports, 32,500,000 frs. have been assigned for works in the ports and harbours for next year, and 20,000,000 frs for canals. The most important canals are the Central Canal, the estimated cost of which is 1,500,000 frs.; Eastern Canal, about the same amount; that connecting the Marne and the Saone, estimated at 4,000,000 frs.; that to connect the Marne and the Rhine at a cost of \$90,000 frs. It will thus connect the Marne and the Shine at a cost of 890,000 frs.; that to connect the Marne and the Shine at a cost of 890,000 frs. It will thus be seen that the advantages of canal carriage is becoming more and more recognised by the commercial public generally, and will within a few years be a far more important factor than at present in the carriage of minerals and heavy goods. If the construction of a few

mportant waterways between the great manufacturing centres were carried out the railway monopoly now existing would be effectually broken up, a substantial reduction of fares would follow, trade relieved of much that now hampers and restricts it, and another legitimate means afforded for the profitable employment of capital.

THE MINERS' WAGES AGITATION:

timate means afforded for the profitable employment of capital.

THE MINERS' WAGES AGITATION:

The miners in North Staffordshire have been on strike for upwards of 20 weeks against a reduction of 10 per cent. in their wages, 4000, being now out, yet an agitation is going on, especially in the Midland field, for an advance of 15 per cent.; in this the North Staffordshire men have also agreed to join. As usual, the movement commenced in the South Yorkshire district, where the coal miners are about the best paid in the kingdom, and have had an exceptionally good time during the last 12 months. The ground for the third of the provided in the control of the during the last 12 months. The ground for the during the last 12 months. The ground for the third of the present college of the control of the colliers of the decided the miners' leaders that all collieries have paid dividends this year has also received an unqualified contradiction. The same person also stated that last June the coal of the Colliery Owners' Association realised from 16s. 6d. to 17s. 6d. per ton in the London market, whilst the present prices were 18s. 6d. to 19s. 6d. per ton. This is one of the statements relied upon for an advance of wages; but it tells mostly against the men when the figures are analysed. Taking the South Yorkshire district, to which allusion was made, it appears his education of the colling of

MINING ENTERPRISE IN CANADA.

The development of the mining industry in the various provinces of the Dominion appears to be making satisfactory progress, and the Canadian Mining Review, which has recently been established in Ottawa to promote the interest, gives evidence of great care and indgment on the part of those entrusted with its management. The phosphate mines are yielding large returns, and although the market is at present dull it is not thought at Montreal that the depression will be of long duration. For some years back repeated rumours have been affoat to the effect that gold and silver bearing quartz had been discovered in the township of Wakefield. But a few days ago a local journal gave Mr. Vennor credit for having discovered gold and silver in paying quantities in quartz in the third range of the abovenamed township. That gold and silver-bearing quartz has been found in the locality there is no reason to doubt, but that it occurs in paying quantity will remain a subject for speculation. Careful examination of the location and the quartz referred to has convinced scientific men that the precious metals are not to be found there in paying quantities. The development of the mining industry in the various provinces

vinced scientific men that the precious metals are not to be found there in paying quantities.

With reference to the Geological Museum of Canada it is remarked that during the past three months the field geologists attached to the Geological Survey, one of the most important branches of the Government service, have been steadily engaged in exploring and examining the mineral sections of the Dominion, and in noting the progress made in the mining districts where active operations are being proceeded with. A large and most interesting variety of specimens have been forwarded by them to the musuem at Ottawa, and will shortly be exhibited for public inspection. In addition to the specimens of economic minerals, there are many that have no commercial value, but are wonderfully interesting to the student of geology, some of which are very beautiful and valuable as cariosities. The museum continues to attract a large number of visitors, and, as

mercial value, but are wonderfully interesting to the student of geology, some of which are very beautiful and valuable as curiosities. The museum continues to attract a large number of visitors, and, as the official book shows, there have been no less than 3158 names registered from June 1 to August 24 inclusive, being an important increase on the number registered during the same period last year.

Manganese deposits of a very superior quality have been discovered and tested by Mr. R. J. Stephens, near Walton, Hants County, Nova Scotia. It lies in the same formation as the ore of the Tenecape Mine, and is distant from it about eight miles. In Hants County an irregular annual export of manganese has been maintained, amounting since 1861, to about 2000 tons, valued at \$110,000. Formerly extensive operations were carried on at Tenecape, Walton, and Pembroke, but are now confined to the first-mentioned locality. The Hants County ores are of a very high grade, yielding 90 per cent, and upwards of peroxide, and being almost free from traces of iron

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are valued by the flint glass-maker, as glass is apt to contract a greenish tinge from the presence of iron. The manganese yielding districts in Hants County which gives promising indications is over 150 square miles in extent, and the absence of workings may be traced not to a deficiency of the ore, but to a want of enterprise and capital. Everything about the mine and mill of the Oxford Gold Mining Company is in a satisfactory condition. The late scarcity of miners during the fishing season somewhat retarded operations, but they are now more plentiful, and opening work on the different leads will be proceeded with thoroughly and vigorously. The face of the east bluff is 25ft. high, and enough ore is in sight for three months' work. The milling plant on the property is very complete, and is pronounced the best in the province, and equal to any that is in use elsewhere.

THE MASON COLLEGE BIRMINGHAM.

work. The milling plant on the property is very complete, and is pronounced the best in the province, and equal to any that is in use elsewhere.

THE MASON COLLEGE BIRMINGHAM.

The session was opened on Tuesday by a meeting for the distribution of prizes. Alderman R. CHAMBRELAIN, the bailift, presided. The prizes having been presented, Alderman Chambrelain said it was usual on that occasion for the bailift to give some little account of the work that had been accomplished in the College, and of what was likely to be done during the ensuing session. During the past session they had had 366 students, compared with 251 in the year before that, and he was glad to be able to add that year do sen satisficient to lead them to believe that the prosession would be no less rapid than in the past. They had been ensheld to arrange—in a great measure through the energy and spirit of Professor Lapworth—for a course of lectures on coal mining. The lectures would be given by the professors of chemistry, engineering, and geology; and Mr. J. Brown, who was very well known in the district as an entinent mining engineer, would give the practical course on mining engin them. It is not a subject to the property of the professor in the past of the professor of chemistry, engineering, and geology; and Mr. J. Brown, who was very well known in the district as an entinent mining engineer, would give the practical course on mining engin them. It is provided to the professor had been compared to the professor had been compared to the professor had been been professor and the papiloneers, colliery proprietors, and others interested in mining. They would all see how great a good might be done in such a district as this by such a course of lectures, and those connected in any way with the College could not but feel a pride in the fact that the College of the content of the professor had been proprietor in the professor had been professor and the professor h

size of the town, and the population of the neighbourhood, stood second to none in the country. In order to encourage the students an individual in the town thought of offering prizes to those who ere so successful in the examinations as to take the Queen's prize Mr. Henderson, previous to the distribution, congratulated Redruth upon having done so well for the young people. It reflected the highest credit upon the town that they should have such a building

the occasion of that exhibition. It was a public benefit that they should thus provide for the youth of the town, who appeared already to appreciate it, for the prizes which he had before him showed that endeavoured to gain all the information that was offered them, and to profit by it.

THE COPPER TRADE.

During the quarter ending Sept. 30, 1883, the quantity of copper ore, the produce of Cornwall and Devonshire, sold at the Cornish Ticketing, was 10,023 tons, which contained 610 tons 18 cwts. of fine copper, and realised 32,3081. 18s. 6d., being equal to an average of 3l. 4s. 6d. per ton of core, and 52l. 18s. per ton of copper in the ore. During the same period the British, colonial, and foreign ores sold at Swansea amounted to 958 tons, which contained 94 tons 13 cwts. of fine copper, and realised 5355l. 13s. 6d., being equal to an average of 5l. 11s. 9d. per ton of copper in the ore. The average produce of the ore sold at Cornwall Ticketings 6½ per cent., whilst that sold at Swansea gave an average produce of 9½ per cent. From this it will be seen that the aggregate sales by ticket were 10,981 tons of ore, containing 705 tons 11 cwts. of fine copper, realising 37,664l. 12s. The subjoined is a summary of the periodical sales at the Cornwall and Swansea Ticketings respectively. The ores sold at the Cornwall Ticketings were—

Date. Standard. Prod. Price. Per unit. Tons. Fine cop. Amount.

91	ores sold at the Cornwall Hoketings were—		
1	Date. Standard. Prod. Price. Per unit. Tons. Fine cop. Amoun	at.	
1	July 5£ 90 16 0 714 £3 17 8 10s. 714d. 1441 105t. 00 £ 5,570	7	
,	19 104 2 0 537 2 14 0 10 346 2134 111 12 5.748	15	6
١.	Aug. 2 93 13 0 674 3 13 0 10 8 4 936 64 1 3,424	2	0
ľ	23 101 8 0 5 2 2 19 0 10 6 2455 138 6 7,270	6	
	Sept. 6 98 13 0 61/2 3 5 0 10 51/2 836 51 17 2,713	4	6
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	Total for the quarter10,023610 18 32,308	18	6
	Quarter ending June, 1883 9,147572 7 30,110	9	ŏ
	Quarter ending March, 1883	8	Ř
	Quarter ending December, 188211,657699 10 43,368	13	6
			_
	Total for the year	9	6
	Showing a quarterly average of10,262 623 2 34,904	7	4
	Corresponding quarter, September, 1882, 10, 312 644 15 42, 104		
	The ores sold at the Swansea Ticketing were—		v
	Date. Standard. Prod. Price. Per unit. Tons. Fine cop. Amoun	4	
	Aug. 14 £30 19 9 978 £5 11 9d. 11s. 4d 958 94 13 £ 5,355	12	
	Aug. 14 200 19 9 9/2 25 11 8d. 115, 4d 956 94 15 2 5,555	13	0
	Total for the quarter 953 94 13 5,355	13	6
	Corresponding quarter, June, 1883 1,631220 4 £12,396		
	Quarter ending March, 1883 1,075 88 13 4,991 1	3	õ
	Quarter ending December, 1882 2,621284 13 19,690 1	7	ä
		_	_
	Total for the year	6	0
	Showing a quarterly average of 1,321 172 1 10,608	11	6
	Quarter ending September, 1882	-	-

SCOTCH PIG-IRON WARRANT MARKET.

Mr. W. Wilson (Glasgow, Oct. 4) writes:—The warrant prices have improved on the week; an oversold market is liable to such sudden changes, especially when allusion is made to a possible restriction of production. Nothing serious is yet contemplated in that way; but the remodelling of furnaces having become a necessity with those who would compete for the advantages which science has secured, a furnace or two here and there will go out temporarily, for alteration or reconstruction. Warrants have long been depressed because of the heavy stock and the indifference of the public to iron as an investment. A return of confidence would quickly affect the price and alter the whole aspect of the Scotch iron trade. Shipments are fairly good for the week, although short of last year. A furnace has been blown out at Glengarnock, reducing the number blowing to 114. 1010 tons were put into store here last week, while 50 tons were

SOUTH STAFFORDSHIRE MINES DRAINAGE.—The annual meeting SOUTH STAFFORDSHIRE MINES DRAINAGE.—The annual meeting of the Commission was held in Wolverhampton on Wednesday, Mr Walter Williams (Chairman of the Triumvirate) presiding. On the motion of Mr. Richard Williams, seconded by D. Groucutt, Mr. Walter Williams was re-elected Chairman of the Triumvirate for the ensuing year. The annual reports were received and adopted. Mr. R. Williams observed that when these works were concluded he supposed there would be a reduction in the present 1d. rate by which the annual cost of 8000l. or 10,000l. was defrayed. Since the committees had been abolished the Commission knew very little of the proceedings of the Triumvirate, and he should like a story of the mittees had been abolished the Commission knew very little of the proceedings of the Triumvirate, and he should like a story of the troubles of the last year and the hopes for the future. The Chairman, in reply to the remarks by Mr. Richard Williams as to the reduction of rate upon the completion of surface works, said that great things could not be expected in the war of reduction of rates in face of the sums which, as the accounts showed, had still to be paid off, and in face of the necessary maintenance of works. in face of the sums which, as the accounts showed, had still to be paid off, and in face of the necessary maintenance of works. One of the greatest drawbacks which the Triumvirate had to contend with was that gentlemen who were members of the Commission unhesitatingly sunk the works of the Commission. If every man would do his best to keep up the water-courses, and thus aid the surface work, it would go far towards effecting a reduction of the rates. In reply to Mr. Wilson Lloyd's remarks, the Commission were acting with strict legality in charging to the surface rates the removal expenses of water that came on the surface. Water was pumped off the surface out of the swags and into the streams. To show the utility of the surface works, he would like to say that during last month there had been 6 in. of rainfall over 7500 acres, which meant 1,120,000,000 gallons of water. All this, had it not been pumped from the surface, must inevitably have found its way into the mines below the level. He believed the surface drainage was a department which they should continue to develope to a far greater extent, in order to prevent the water from getting down into the mines. As regarded the question of levels, there were no levels proposed, suggested, or in any shape or form intended to be carried out that had not been submitted to the Commissioners at previous meetings. And in the future either as to levels or now other works the same policy of always of always of the water policy of always of ELECTRIC SIGNALS IN CORNISH MINES.—In connection with the Cornwall Mining Institute an interesting lecture was delivered at any shape or form intended to be carried out that had not been submitted to the Commissioners at previous meetings. And in the future either as to levels or any other works the same policy of always obtaining and ventilation from the main tunnel, and about 90 ft. deep. These shafts are lined partly with brickwork and partly with iron kindle and the pleasure, of the general progress of the works of the Commission, would be pursued. With public to Cornish mines. He urged that the bell electric signals would be a wast improvement on the present system, that electricity in that progress was very great. Relatively speaking the amount that would be a wast improvement on the present system, that electricity in that progress was very great. Healtwelly speaking the amount that allow the waster to run to the pumps, shafts a Valsequently the prizes won by the students of the Redruth Science and Art Classes, which are in connection with the Miners' Association, were distributed by the President of the Mining Institute.

Previous to this Mr. Chellew, the hon. secretary, read the report, which was a satisfactory one. He prefaced the report by observing that for some time to come, and it must not be for being that certain of the works commenced that year ought to have charges to be met for some time to come, and it must not be for late the waster. The pumping of the commission would be pursued. With the commission would be pursued. With the cornish mines the urged that the bell electric signals in the approval of the Commission would be pursued. With the commission wou be advantaged if only the water rose high enough. (Laughter.)— Later on, in acknowledging, on his own behalf, a vote of thanks accorded to the Triumvirate for their services during the past year, the Chairman said that if the Commission intended to continue its confidence in himself and his colleagues as a Triumvirate, it must be unmixed confidence. They must believe that the Triumvirate had the interests of the whole district at heart, and that no personal in-terests were allowed to interfere. It would perhaps be gratifying

present most of them were at blast. The general work of the Commission in the past had been very arduous, but he believed that it merely required time and patience, and a little consideration on the part of the Commissioners, for the whole scheme to be completed to the satisfaction of all.

South Staffordshire Institute of Mining Engineers.—
At the usual monthly meeting on Monday (Mr. H. Johnson, jun., in the chair) the secretary read a letter from Mr. Glennie, stating that, owing to the illness of Captain Coates, the excursion to Snailbeach Lead Mines would have to be abandoned. He also reported that the professors of Mason's College had determined upon having a course of mining lectures, and they had also agreed to have a lecturer on mining and mine management. Mr. John Brown had been selected, and this would give the greatest satisfaction to all concerned. Several gentlemen had intimated that it was their intention to do all they could to assist Mr. Brown by the forwarding of models, plans, &c., calculated to promote the success of the lectures; also to forward anything strange which they found in the workings. The President said the letter of Mr. Brown was a gratifying one, especially when they recollected that it was that Institute which had done much to develope the movement on the part of the Mason's College for a course of mining lectures. They would be of the greatest use to the younger members of both Institutes in Staffordshire, and he thought it would be well if the Mason's College professors would alter the night of meeting, because Monday was the night on which the South Staffordshire and the North Staffordshire Institutes met. The secretary was instructed to write to Mr. Brown and the Mason's College professors congratulating them on the appointment, and the course adopted. SOUTH STAFFORDSHIRE INSTITUTE OF MINING ENGINEERS .-

DESIGNS, SPECIFICATIONS, AND INSPECTION OF IRONWORK.

In an interesting paper on this subject, read before the Society of Engineers on Monday evening (Mr. Jabez Church, M.I.C.E., F.G.S., in the chair), Mr. Hamilton W. Pendred said that, although engineers and contractors approach each other in knowledge more nearly cow than forwards, the engineer presenting more restrict, and the In an interesting paper on this subject, read before the Society of Engineers on Monday evening (Mr. Jeac Church, M.I.C.E., F.G.S., in the chair), Mr. Hamilton W. Pendred said that, although engineers and contractors approach each other in knowledge more nearly now than formerly, the engineer possessing more practical, and the contractor more theoretical knowledge, each has even yet a good deal to learn of the other; and hence a good deal of needless friction often exists between contracting parties. The first object of the engineer is to obtain a lasting and sound piece of work, while of necessity the contractor has to study the least expensive methods of putting work together. Very often contractors can and do give engineers useful practical hints and suggestions, which, however, are not always taken in a friendly spirit. Drawings ought to be assomblet and to as large a scale as possible, and some extra days spent on perfect drawings saves weeks of work and much correspondence, mistakes, and heartburning afterwards. Wherever possible all the design ought to be perfected at once, leaving nothing to be subsequently done, for contractors have a reasonable objection to having the work hindered; and this does happen often if parts of designs are left over for further consideration. With regard to details, fron ought to be worked by the smith as little as possible, as every heating and hammering injures the fibre. Angle irons are often bent without any adequate need for it, and the straighter all the parts of an iron structure are the easier to rivet up soundly. Joint covers are often carelessly designed and badly fitted, yet they are very important items. Specifications sometimes have badly-worded clauses, and demand things utterly impracticable, such, for example, as stating that all the parts shall be drilled in the position they will actually occupy in the finished structure, and contractors read such specifications with contempt. Another absurd and sheared, be dipped while hot into oil. No mill with which the

called the dispute clause of a specification, which constitutes the engineer sole and absolute judge, from whom there is no appeal. This clause contractors frequently repudiate, as being unjust and illegal,

ROCK-DRILLS AND COMPOUND ENGINES.

In a paper on the Mersey Railway, read before the British Association for the Advancement of Science by Dr. C. D. Fox, it was stated that the length of the railway is 3 miles 8½ chains, of which almost the whole is either in tunnel or covered way, and it is being constructed for a double line throughout, with six stations. Two shafts have been sunk on each side of the Mersey, one being for pumping purposes and for communication with the drainage heading hereinafter mentioned, and having a depth of about 180 ft.; the other for winding and ventilation from the main tunnel, and about 90 ft. deep. water, and the details of the main tunnel.

water, and the details of the main tunnel.

In the discussion which followed the reading of the paper, Colonel
Beaumont remarked that 5000 yards of rock had been cut with his
machine at a fast speed. The rate expected at Liverpool was 1 ft.
per hour, and they had attained to 7 ft. in eight hours. In chalk,
the cutters would excavate 15 ft. before being changed, and in the
Mersey sandstone they would cut from 3 in. to 18 in. without renewal. A more powerful machine was being built which would discussed. as the committee had been good enough to grant the institute for for them to hear that out of 15 engines at work in the district at newal. A more powerful machine was being built which would drive

BRITISH CAPITALISTS, AND TURKISH MINES.

The little reliance to be placed upon Turkish integrity has become almost proverbial, and although thus far British mining capitalists have supplied but comparatively little money for the development of Turkish mines, the cupidity of the Turks is already displaying itself in a manner which, inflicting grievous pecuniary disadvantage upon those who have embarked in Turkish mines, is calculated to prove of the utmost possible injury to Turkish industrial progress. The Constantinople correspondent of the Times, writing from that city, on Tuesday, states that the attention of the British and continental money markets has latterly been directed more pointedly than in on Tuesday, states that the attention of the British and continental money markets has latterly been directed more pointedly than in former times to the mining industry of Turkey, owing to the want of other means of investing surplus capital and the search for remunerative employment with some security less problematical than Government bonds or dubious railways. It is, therefore, all the more to be regretted that the Porte should have chosen the precise moment when European capital was inclined to pour into this country to enact vexatious, irrational, and suicidal regulations, which thwart the general mining interests of the Empire and ruin those of promoters and of promising mining ventures. A good deal of unpleasantness has been created through recent attempts to deal high-handedly with the owners of some boracite mines, who have invested much capital, expended much time, and incurred no little risk in these undertakings.

much capital, expended much time, and incurred no freed the these undertakings.

Under the mining laws of the Empire individuals discovering ore on their own land, if they elect to become legally possessed of the mine and to work it permanently, and export the produce within a given period of time, obtain a firman of concession. In the case of the boracite mines in question, the English and foreign firms interested and green through all the formalities required, paying regular the boracite mines in question, the English and foreign firms interested had gone through all the formalities required, paying regular royalites, and had expended considerable sums on the works. No legal opposition had been made on private or public grounds, and the period for obtaining firmans, which were duly applied for, has long since expired. Actuated by some unexplained motives the authorities now say that provisional permits for working stated quantities of ore shall no more be issued, those already given having sufficiently remunerated the holders of them, the Government having decided to work the mines on its own account. As it is manifestly decided to work the mines on its own account. As it is manifestly impossible for the Turks to find the means required to work the mines or to obtain any greater advantage than the royalties which the actual owners regularly pay the Treasury, this sudden caprice on the part of the authorities is, to say the least, unwise and vexatious, no less than unjust and unreasonable. The mining law provides that in such cases Government shall indemnify all owners for all outlay and loss; but inasmuch as no instance is known of the Porte fairly paying any compensation whatsoever, even in cases of well-proved downright spoliation, foreign capitalists have submitted to it. In this instance they would simply have lost their money like so many others unfortunate or foolish enough. The foreign merchants naturally applied to their respective Embassies to protect their interests, and the well-founded energetic representations which have been made in the proper quarters will, it is hoped, induce the Porte to see its mistake and withdraw the decree, which, if maintained, will produce much irritating litigation and ultimate loss both to the Treasury and to private interests with no sort of advantage. decided to work the mines on its own account. As it is manifestly

The advantage which mining enterprise confers upon a nation is so generally recognised that, even in the most troublous times, miners in almost every country receive especial protection; and hence there are some who pretend to believe that this extraordinary action on the part of the Turkish officials is merely intended to attract attention to the Turkish mines, and that the virtual confiscation announced will quickly be contradicted and pronounced a mere idle rumour. Nor does this contention appear altogether groundless, for, curiously enough, the Times correspondent mentions this instance of Turkish rapacity and the mining capabilities of the Empire in the same letter. He remarks that the mining wealth of the Empire is, as a matter of fact, unlimited, and has been hitherto almost untouched, the Porte being without any means whatever of practically utilising this invaluable source of revenue. The example practically The advantage which mining enterprise confers upon a nation is touched, the Porte being without any means whatever of practically utilising this invaluable source of revenue. The example practically afforded by some of the mines already at work would appear clearly to point to a policy of liberal encouragement, rather than of petty obstruction, which can only be explained on the ground of culpable ignorance or by the fact, unfortunately too true, that the executive is meanly jealous of the prosperity of a foreign undertaking, and prefers to sacrifice the proportionate advantages. All advantages will be lost, and all desire to bring capital to Turkey again will be effectually stifled if the Government pursues an incomprehensible insane policy. His Majesty is known to be keenly alive to the importance of re-establising the credit of the country, and to be extremely anxious to encourage foreign capital to return to Turkey. If the Turks be indeed desirous of attracting British capital into If the Turks be indeed desirous of attracting British capital into their country they must not only remember that hitherto shareholders in Turkish mines have received no dividends on their investments, but they must offer substantial guarantees that any rights granted will be permitted to remain absolutely undisturbed so long as the conces-sionnaries fulfil the obligations they have undertaken.

IRON INDUSTRY OF NEW SOUTH WALES.—The existence of extensive deposits of rich iron ores at Wallerawang, Lithgow, Mittagong, Mount Lambie, Berrima, Illawarra, and in various other parts of the colony, has been demonstrated—in many instances in the vicinity of coal and line in abundance; but owing to the heavy cost of erecting smeting and other works, and the difficulty of securing the necessary skilled labour, very little has yet been done towards developing this important source of wealth. In fact, with the exception of the Fitzroy Works at Mittagong, which have been abadoned for some time past, the only works in the colony are those of the Eskbank Iron Company, at Lithgow Valley, which were originated in 1875. These works consist of furnace, foundry and forge, and rolling-mills; the two branches are connected by a horse transnated in 1875. These works consist of furnace, foundry and forge, and rolling-mills; the two branches are connected by a horse tramway. Most of the plant, including a 24-ton fly-wheel, was made on the ground. The blast-furnace is capable of producing 100 tons of grey, or 115 tons of white iron per week. Both pig and malleable iron are made, and large quantities of rails for tramways have been rolled. Upon this company's property are iron ore, coal, fire-clay, and moulders' sand. During the year 1881 the Eskbank Iron Company made pig-iron to the value of 10,950%; bar, angle, and railiron to the value of 31,086%, and castings, &c., to the value of 5777%. During the year the blast-furnace was worked only five months and During the year the blast-furnace was worked only five months and 17 days. With the introduction of sufficient capital and experienced skill a busy and prosperous future will become assured to the iron industry of the colony.

COAL PRODUCTS OF NEW SOUTH WALES.—The colony is wonderfully rich in coal, the principal shipping port being Newcastle, at the mouth of the Hunter, about 75 miles north of Sydney. Its surroundings remind an English visitor of the leading features of an English coal mining district; there are the same works at the pit mouth, the same co-operative stores, the same public-houses, with the old characteristic signs, the same broad-shouldered, thickly-clad, sleepy-featured pitmen. It is as if a portion of the Durham or Northumberland coal mining region had become bodily transferred to the Australian coast. There are occasional disputes between employer and employed, but on the whole the relations between capital and labour are fairly harmonious. The coal measures embrace an area of about 23,950 square miles. The seams worked vary from 3 ft. COAL PRODUCTS OF NEW SOUTH WALES.—The colony is wonto 25 ft. in thickness, are nearly horizontal, and are in some localities considerably above sea level. There are at the present time 41 collieries at work, employing in the aggregate above and below ground 4125 miners and others. In addition to the foregoing there are two

headings at the rate of 8 yards in 24 hours without the use of explosives. There was a loss of power by compressed air transmission, but it was not irremediable. The boring machine utilised one-third of the original power, and he hoped to bring this up to one-half. As compared with water under pressure air had the advantage of being capable of indefinite subdivision, and the friction in the pipes was much less.

mines at which very valuable seams of petroleum oil, Cannel coal, or kerosene shale, are being worked. The number of men employed at these mines above and below ground is 231. Since 1865, when the compared with water under pressure air had the advantage of being capable of indefinite subdivision, and the friction in the pipes was much less. at these mines above and below ground is 231. Since 1865, when the working of these seams commenced, the output has been 241,284 tons, valued at 581,0461. There are three principal coal mining districts—the Hunter River and Newcastle coal field, situated to the north of Sydney; the Southern, or Illawarra coal field; and the Western, or Lithgow coal field, upon the Great Western Railway line, about 95 miles west from the Metropolis. Coal is also being worked near Berrima, between Illawarra and Lithgow; and some seams are known to occur in the country lying between Lithgow and the Hunter River. Sydney, therefore, occupies an almost central position with River. Sydney, therefore, occupies an almost central position with regard to the coal mining districts, and beyond these coal has been discovered in different parts of the colony—near Invereil, Denisontown, Dubbo, Barraba, Clarence, &c.

DISTILLATION OF COAL AND SHALE.

DISTILLATION OF COAL AND SHALE.

To reduce the amount of manual labour employed in and to effect more economically the distillation of coal, cannel shale, or other substances from which hydrocarbon gases or oils may be obtained. Messrs.Walker and Bennett, of King's Heath, propose to substitute machinery or other suitable apparatus in lieu of the ordinary apparatus now employed. A horizontal retort, the lower part of which is semicircular in transverse section, but the upper part is not limited to any particular form, is provided with a mouthpiece at each end and at the top of the front end there is attached a hopper from which the coal or shale is fed into the retort. This hopper may be furnished with a feeding screw in connection with a source of motion, and may, or may not be surrounded, or partially surrounded, with a water-jacket. The back end of the retort has also a mouthpiece, to the upper part of which is fixed the pipe for conveying away the gas or hydrocarbon vapours, and from the lower part of which depends a shoot, terminating in a large receptacle for receiving the coke or ash. This receptacle is capable of being opened and closed by a gas-tight door Extending the whole length of the retort, and projecting through, stuffing boxes in and beyond the mouthpiece at each end, is a hollow cast or wrought iron shaft. That part of the shaft within the retort has formed around it a screw made up of segments or otherwise, and is so placed that the lower part of the screw comes nearly into contact with the bottom of the retort. The front end of the shaft outside the mouthpiece has a spur wheel, pinion, or worm fixed to it, through the intervention of which the said shaft may be made to revolve by any suitable motive power. The opposite end of the shaft has a pipe attached to it by which the heated air passing through the shaft may be conveyed to the furnace. By this means the furnace is supplied with heated air, while the shaft is kept sufficiently cool to prevent it from bending. If found necessary provision To reduce the amount of manual labour employed in and to effect

the ordinary or other suitable form of furnace, the hopper being supplied with coal, or other material, and the jacket also being supplied with water, on motion being imparted to the screw, the coal will fall or be fed from the hopper into the mouthpiece, and from thence by the revolution of the screw in the retort it will be slowly propelled towards the back end thereof, and in the course of its transit will yield up its gas, or hydro-carbon vapours which will be conveyed away by the pipe at the back of the retort, while the coke will fall into the receptacle constructed for it and be removed at convenient times. The screw within the retort may be made of fireday, or of aspector, or a combination of both, or the screw may be clay, or of asbestos, or a combination of both, or the screw may be only, or of aspessos, or a combination of both, or the screw may be made of iron and coated with clay or asbestos, or a mixture of the same, or of any material suitable for protecting the screw, and so as to allow of any deposit of carbon that may be formed thereon to be readily removed.

CRUSHING AND PULVERISING MINERALS.

CRUSHING AND PULVERISING MINERALS.

An ingenious method of crushing ores and minerals has been invented by Mr. CLAUDIUS JOUFFRAY, of Vienne, France. In carrying the invention into practice he provides a cast-iron roller fixed upon a shaft, to which motion is imparted by any suitable means. A movable annular shell or hollow cylinder of cast-iron or steel rests freely upon the said roller, and upon the interior of this shell a grinding roller rests freely. He also provides guide-rollers for maintaining the said shell or cylinder in its proper position during the movement thereof; these guide-rollers are supported by standards or other suitable means. An inlet pipe is provided for the material to be crushed or ground, and there are scoops or buckets furnished externally with wire gauze. The material which has passed under the grinding roller falls into the said scoops or buckets which raise and throw back under the said roller all the pieces which are still too large. The smaller pieces pass through the wire gauze and fall into a receptacle below, whence they are conducted to sorting bolting mills in any suitable manner. Pipes are, moreover, provided for the return of the imperfectly crushed material which is brought from the bolting apparatus to the said shell or cylinder to be again crushed bolting apparatus to the said shell or cylinder to be again crushed between it and the roller, together with the ordinary charge of material. The grinding and other rollers are sometimes made in two pieces—a permanent core and a hard metal ring keyed upon it. These rings, as well as the said shell or cylinder, are provided with grooves which produce a squeezing action upon the material to be

In order to facilitate the arrival of the material to be crushed under the shell or cylinder, the driving roller is placed slightly out of the vertical line passing through the axis of the said cylinder. This arrangement may be unnecessary for materials which slide easily, and in such case the whole apparatus would be symmetrical relatively to the axis of the roller. The details of construction may be varied according to the nature of the material to be operated upon, and other circumstances; the main features of the apparatus being the annular shell or cylinder resting upon a roller and enclosing a grinding roller. The apparatus may, if desired, be made of large size, and the said shell may enclose two or more grinding rollers. In order to facilitate the arrival of the material to be crushed

MANUFACTURE OF ALKALINE SULPHATES.

In constructing an apparatus according to his last invention Mr. JOHN MACKENZIE, of Stockton-on-Tees, provides a large chamber forming a furnace, in which are arranged and supported a vessel or retort, or vessels or retorts, or one or more systems or series of vessels or retorts, the exterior surfaces of which are exposed to the heat generated in the furnace by the combustion of coal, coke, gas, or other combustible materials. In cases where two or more vessels or retorts form one system they are connected endwise by passages or communications so as to afford a continuous passage through each or every vessel or retort of the system from the point of supply in the lowest the uppermost vessel or retort to the point of discharge in steppy in the uppermost vessel or retort to the point of discharge in the lowest vessel or retort, the size, number, form, and arrangement of the re-torts or vessels, and their connections depending on the amount of material to be operated upon and the length of time required for its exposure to the heat of the furnace. In order to obtain a regular continuous flow of the material through the retorts or vessels of the apparatus he provides each retort or vessel with an internal central apparatus ne provides each record or vesses with an internat central shaft placed longitudinally and revolving in sockets constructed with external covering caps or their equivalents, to prevent any escape through them of the gases evolved during the process. Each shaft is provided with a series of blades fixed at an angle so as to constantly agitate and carry forward the material through the entire length of each retort or vessel to the passage or communication connecting it with a vessel or retort placed in a lower position in which the same process is repeated until the material is discharged at the outlet.

The salt and acid or other materials to be operated upon are fed or forced into the uppermost retort or vessel by means of a screw or other suitable appliance, and the discharge is accomplished in the same manner, the pressure so applied being sufficient to compress the materials passing through the inlet and outlet pipes in such a manner as to cause them to act as continuous gas-tight plugs. In this way the vessel or retort, or the vessels or retorts and their con-

nections, are rendered gas tight at every part except where outlets are provided for the discharge of the gases which are conveyed in nections, are rendered gas tight at every part except where outlets are provided for the discharge of the gases which are conveyed in pipes of considerable length, which are connected at one end to suitable positions on the retorts or vessels, the other end being immersed in water contained in a tank or connected to a condenser of the ordinary type. By these means the discharged gases are cooled on their passage through the pipes previous to their being forced through a seal of water or passed through the condenser of the ordinary type.

the ordinary type.

It will be seen that by this arrangement of apparatus the ob-It will be seen that by this arrangement of apparatus the ob-noxious effects resulting from the escape of these gases are obviated, also that the material passed through the retorts or vessels of the apparatus are thoroughly exposed to the heat of the furnace with-out being brought into contact with the products of combustion, and the gases are therefore delivered to the condensers in a pure state, consequently any class of combustible materials may be used for heating the furnace without injuriously affective the condensers. for heating the furnace without injuriously affecting the condensers. The shafts and appliances for feeding, working, and discharging may be driven by any suitable means, such, for instance, as endless bands, bevel wheels, and pinions or worms and worm wheels.

AIR-COMPRESSING ENGINES .- The invention of Mr. H. G AIR-COMPRESSING ENGINES.—The invention of Mr. H. G. WILLIAMS, of East Greenwich, consists primarily in dispensing with connecting rods to transmit the power from the piston rod or plunger of any engine actuated by steam, compressed air, or water under pressure; and, secondly, can be used in an inverse direction for producing power by compressing air or by water to be used in any motor driven by a liquid or gaseous body under pressure. He uses a spur wheel revolving in an annular or internally toothed wheel, the diameter of the spur wheel or pinion being exactly one-half the diameter of the internally toothed wheel and gearing thereinto. A stud on the pitch line of the pinion or spur wheel makes during its revolution around the centre of the annular or internally toothed wheel a straight line across its diameter, and the ternally toothed wheel a straight line across its diameter, and the cross head of a piston rod, actuated by steam, compressed air, or by water, attached thereto will necessarily travel in a straight line, by water, attached thereto will necessity of using either connecting rots and will thus preclude the necessity of using either connecting rots or guides. In the same way but in an inverse direction by making the spur wheel or pinion a driven wheel instead of a driving wheel he can use the pistons or plungers so driven as air compressors for he can use the pistons or plungers so driven as air compressors for transmitting power to other motors; the principle of using an internally toothed wheel in which is revolving an externally toothed wheel of one-half the diameter of the former remaining the same. The power to be transmitted is taken off or applied at the pitch line of the smaller or externally toothed wheel in each case. He claims that his invention also does away with the necessity of making the cylinders oscillating as is the case with water or gaseous engines where the power is taken directly from the piston rod, without the intervention of a connecting rod or its equivalent.

KING'S COLLEGE WORKSHOP CLASSES .- It is announced that the evening classes in the College workshops were resumed on Tuesday, under the superintendence of Mr. David Walker, M.I.M.E., and that additions have been recently made to the workshops, and new machine tools and instruments are being added to the plant, notably that the color and marking the color acceptance of Leeds, presented by the Clothworkers' Company. The entire staff of the workshop instructors attend in the evening to carpentry, cabinet work, engine fitting and turning, turning in wood; additional instructors in these subjects, and for general smith work are engaged for the evening classes. The workshops are also fitted with the necessary appliances for moulding and casting in bress and iron convergible and classes. The workshops are also fitted with the necessary appliances for moulding and casting in brass and iron, coppersmith's and plumber's work; and special instructors are retained on five students entering for such class. The Clothworkers' Company give an annual prize of 5l. in books for excellence in wood work, another of 5l. for excellence in metal work, open to all evening class students attending three terms in the year. General and special certificates of merit are also awarded for the work of the students.

PHILADELPHIA ELECTRICAL EXHIBITION .- It is arranged that an exhibition of electricity and electrical appliances shall be held in Philadelphia, U.S., commencing on Sept. 2, 1884, under the auspices of the Franklin Institute of that city. From the high reputation of the Institution, coupled with the fact that the projected exhibition will be the first in America exclusively devoted to this important and progressing branch of science, the above announcement has attended the several description. tracted unusual interest throughout the United States, and the exhibition will undoubtedly afford an admirable opportunity of winnessing a representative display of American discovery and invention in electricity. To increase its scientific and industrial importance, as well as to add to its attractiveness, it was determined shortly after its inception to give it an international character. The importance of the project having been properly represented to the Congress of the United States, an Act was passed which, having received the signature of the President of the United States, is now the law. This official recognition provides for the admission into the United States, duty free, of all articles for exhibition only. It may be added that no effort will be spared by the Franklin Institute to secure a large and important representation of the progress of foreign tracted unusual interest throughout the United States, and the excure a large and important representation of the progress of foreign countries, and that the most liberal provisions will be made to place European and American exhibitors on a fair and equal footing. The subject of electricity and its application is at present attracting The subject of electricity and its application is at present attracting an unusual amount of attention, and the exhibition side by side of the best achievements of Europe and America cannot fail to be in the highest degree instructive. All information required by exhibiters, including the classification of exhibits, regulations for the entry of articles for competition, advices as to the best modes of transportation, custom-house regulations, and all other needful information, will be furnished to parties making application for space for exhibition. for exhibition.

SLEEPING IN A FIERY MINE.—On Sept. 28 an important case connected with the safety of miners and mines was heard at the Blackwood (Mon.) Petty Sessions. Joseph Hanley, haulier, was charged by the Newport Abercarn Coal Company with sleeping in a return air-way in the Celyn Colliery with a safety-lamp in his charge on Sept. 10. Mr. J. T. Green, the manager represented the company. Hanley pleaded guilty. Mr. Green having given evidence as to the serious and dangerous nature of the offence, and stating that he wished the charge to be pressed, the Bench fined the defendent 1l. and costs. The Chairman commented severely upon the reckless conduct of the defendant, pointing out the deplorable results which may have followed such gross misconduct.

Mysore Gold.—An extraordinary general meeting of share-holders was held yesterday to consider the reports recently received from the company's mines. Mr. Frank Taylor, who has returned from a visit to the company's mines, has formed an unfavourable opinion regarding the deeper points; whereas Mr. Bell-Davies and Capt. Plummer still retain the belief that the veins are true fissure veins, and that to sink through the hard rock is the right course to veins, and pursue. After some discussion it was decided to continue the working of the mine; but the directors were requested to concentrate their efforts on a few points of working.

COAL IN MEXICO.—The coal district of Zacualtipan, in Hidalgo, is attracting considerable attention. Coal has been discovered in 25 points, in nine of which its mining is pronounced practicable. It is points, in time of which its mining is pronounced practicable. If in ore is also found in the district. The principal mines are, says the Mexican Financier, La Galena, Nuestra, Senora de Guadalupe, La Constancia, La Sorpresa, La Coucha, San Rafael, Santa Crux, La Trinidad, and Caparosa. The working of the mines of this district is practicable with slight cost, for nothing more than tunnels and slopes will be necessary for many years. In the Guadalupe and Constancia mines the coal is brought out at a cost of only \$1 and \$1.25 a ton.

Mr. A. A. Broad (Broads, Paterson, and May) has been appointed official liquidator of the Carta Para Gold Mining Company (Limited) in place of Mr. James Waddell, removed by order of the Court.

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FIGURE 1985.

FOR 1985

BHODES REEF GOLD.—Mine manager, Sept. 2: The Chillian mill and Morris settline new working well, and next week? I hope to send you the result. Morris settline new working well, and next week? I hope to send you the result. Morris of the Children of the C

OPENING MUSEUMS ON SUNDAY. — It has often been declared hat it is the working men who desire to have museums opened on that it is the working men who desire to have museums opened on Sunday, though miners, who are naturally religiously disposed, have always desired this, and there is no doubt that their view is correct. In connection with the obituary notice of Mr. T. B. Smithies, Editor In connection with the obituary notice of Mr. T. B. Smithies, Editor of the British Workman, it is mentioned that in a conversation with the late Mr. Mark Lemon, the Editor of Punch—which was always inclined to profanity—Mr. Smithies expressed his belief that the working men of this country are sounder than many professing Christians, being wide awake to the fact that if the barriers which surround the Lord's day in this country were broken down ultimately they would have to do seven days' work for six days' pay. This state of things has already been reached in France. Mark Lemon admitted that he got up a petition in favour of opening the British Museum on Sundays, and sent into their printing office for signature. The men returned it through their foreman without a signature, re-Museum on Sundays, and sent into their printing office for signature. The men returned it through their foreman without a signature, refusing to sign because "they did not think that would be the end of it—it would only be the thin edge of the wedge, and they thought that before long workshops, offices, and all kinds of places as well as museums would be open on Sunday too." Mark Lemon admitted the truth of the argument, and acted accordingly.

Messrs. Rickards and Bee will in future be the name of the firm heretofore known as Rickards and Budd, Mr. E. F. Budd having

WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS, EOWNERS STOCK AND SHARE DEALERS, &c 1 ST MICHAEL'S ALLEY, CORNHILL, LONDON

A shareholder in a Cost-Book Mine can determine his liability at any time, by relinquishing his shares and paying his proportion of liabilities up to the end of the month in which he relinquishes. A correspondent asks that we should publish a copy of this form of relinquishment, and we do so, though we are under the impression that we have given it before. For the sake of explanation let us suppose A. B. hold 100 (10,000 shares) in Wheal Unfortunate, and, wishing to get clear of it, he relinquishes shares on the 10th of any month; the accounts would be made up to the end of the month, and if the debts were 10,000% his proportion would be 2s. per share, or 10%, and he would claim his proportion of the estimated value of the machinery and plant, but would probably have to wait some time before he got the money. The recognised time used to be two years, but many pursers do not take so long.

The following form will do:—

To ——, purser of Wheal ——. I hereby give you notice that from and after this date I relinquish and give up all my —— A shareholder in a Cost-Book Mine can determine his liability at

To ——, purser of Wheal ——. I hereby give you notice that from and after this date I relinquish and give up all my ——shares in ——— Mine, reserving my proportion of the machinery, &c:

A. B. should get an acknowledgment of this from the purser, stating that it would be duly entered in the Cost-Book.

A correspondent, signing himse'f "A Shareholder in Bratsberg, A correspondent, signing himself "A Shareholder in Bratsberg," referste our remarks upon Capt. Rutter's report. They were written before that report had been in any way made public, and upon authority upon which we could rely; further, they were correct, leaving out such words as "doubtless" and "ifa." All we intended to convey in regard to the ore sales was this—The last year's sale, we have always been given to understand, was of the October ores, and the late sales from the accumulations of ore raised since that month. "A Shareholder" makes a distinction without a difference.

We cannot answer all the questions in regard to electric companies. Anglo-American Brush rose, we believe, to 68%, or 2,720,000% for the whole property. The shares are now about 5½. Hammond 51. shares, 21. 10s. paid, rose to 20%; are now 21. with 31. 15s. paid. Others are quite unsaleable, and some of the subsidiary companies shares, with heavy liabilities in shape of calls upon them, are not only unsaleable, but shareholders are offering to give money to get them taken off their hands.

only unsaleable, but shareholders are offering to give money to get them taken off their hands.

Mining we all know to be a speculation, and go into it accordingly; and the losses in half the mines in the list put together would be scarcely more than in one of these electric companies. Yet a loss in a mine is made ten times as much of.

At West Crebor the lode is being out through in the 62 west, and so far as seen is 2½ ft. wide, with 1 ft. south of the capel; good sav-

ing work for copper ore.

The various points in operation at Prince of Wales are now worth 721. 10s. per fathom in the aggregate. We hope to get up extra stamps and increase the returns.

Wheal Crebor sells large quantities of arsenical mundle, because the copper ore, and the points in the mine yield at present 15 tons per fathom of that mineral.

We have had a great many enquiries of late as to Parys Copper, but we have a partition of the properties of the control of the co

have been unable to say anything definite. Important negocial have been going on, and will be fully explained at the meeting.

In reply to some correspondents, we may say that we were induced to go deeply into Langford mainly upon the report of Capt. Rowe, then manager of Wheal Crebor, who told us he had himself broken the rich ores from the mine named in his report, and some of which yielded 336 ozs. of silver to the ton, the copper 25½ per cent. Another agent wrote:—"I have known the property for a number of years, and believe it to be the richest for silver in England. I would recommend that a 50-in. cylinder engine be erected, confining operations solely to draining the mine and sinking the shaft deeper, so as to reach the junction of the two lodes. This accomplished, a great fortune is within reach of all parties interested." Capt. Rowe also wrote the secretary that he had seen the oldest silver miner in the district, and he states, as far as his judgment is concerned, "he would give more for Langford, in and above the junction of the lodes, than for all the mines in the district.

Thus much for the mine itself. In reference to a large deposit of stuff on the surface, which Mr. Doble reported he could, return into matte at a great profit, his words were that "there were thousands of tons at surface that will leave a good profit on reworking." It was also said that we should be allowed to make this ore into matte at a furnace to be lent to the company; but this furnace was incomplete a mile off, and cost the company so much money to repair, that after finding that matte could be made from the refusers deterfinding that matte could be made from the refusers deterfinding that matte could be made from the refusers deterfinding that matte could be made from the refusers deterfinding that matte could be made from the refusers deterfinding that matte could be made from the refusers deterfinding that matte could be made from the refusers deterfinding that matte could be made from the refusers deterfinding that matte could be made from the refusers deterfined that means a second profit or reworking."

mile off, and cost the company so much money to repair, that after finding that matte could be made from the refuse the directors determined to drain the mine before spending 400l. or 500l. upon erecting a new furnace, more especially as the cost of draining the mines far exceeded the original estimates.

Stronger or more encouraging reports were never written by any agents of any mine; and as was appropried in publishing them the

agents of any mine; and, as was announced in publishing them, the mine was offered to the public without any premium or promotion money, and the five directors took 1000 shares each, and, we may add, still hold them.

But the capital of the company proved insufficient to do more than drain the mine and sink a few fathoms towards, but not to the junction of the lodes, yet the shareholders refused to subscribe more money to carry on the mine to the results indicated in the reports, and the present company, in 12,000 shares of 5s. each, may reap all the advantages of the great outlay made, for we cannot believe that any agents of respectability could write such reports unless they believed them to be true. All the old shareholders, we understand, have received notice that if they do not send in their applications for shares in the present company they will be allotted to others who may apply, and we think we safely advise our correspondents to apply before they are all gone.

We hear a very large business has been done on the Continent in

We hear a very large business has been done on the Continent in spelter, as much as 6000 tons having recently been sold in Frankfort

A rise in spelter used to be looked upon as the forerunner of a se in other metals.

There has been rather more business doing this week in the Stock There has been rather more business doing this week in the Stock Markets, though several departments have been somewhat unsettled owing to the closing of a large speculative account, open, for the Secretary of the London and River Plate Bank, who has absconded. Grand Trunk securities have further advanced, large purchases being made. The traffic return published this week and the revenue statement for August were both satisfactory, the net profit for the month showing an increase of 12,5494, compared with the corresponding period of 1882. Mexican Railways, after rising to S4, relapsed again to 75, from which point they have, however, somewhat recovered. 75, from which point they have, however, somewhat recovered The traffic return was again very disappointing. Among Miscellaneous shares Hudson's Bay Land have improved, Electric Light shares have fallen, and Gas Stocks risen. Eley Brothers are up to 36\frac{1}{2}, 37; English Railways are dull and lower. Brighton, A, 2\frac{1}{2} to 3 per cent. Foreign Stocks are dull. There has been a large business doing in Mexican Three per Cents. and Peruvians, the former fluctuating between 24\frac{1}{2} and 26\frac{3}{2}. The Funds are steady, though rather lower for the week.

BOTALLACK.—This mine was offered for sale as a going concern on Tuesday, at Penzance, by Mr. W. Hosken Richards, auctioneer, but there was no bid. Mr. S. H. James, the pursor; Mr. F. Boase, one of the committee of management; and Mr. Henry Thomas, a member of the committee (the two last being large shareholders for many years), stated that the mine was looking better, and only needed from 20,000*l*. to 25,000*l*. to be put in good working order, with every chance of fresh discoveries and restored wealth. There will be a general meeting called shortly, and it is hoped that arrangements will be made for continuing operations. will be made for continuing operations.

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Subject-" Some Continental Mines."

TO BE LET.-VIGRA MINE, MERIONETHSHIRE. THE COMMISSIONER OF WOODS, &c., in charge of Her Majesty's Land Revenue in Wales, is prepared to RECEIVE TENDERS for an AGREEMENT for a LEASE of the above-named Mine, situate in the parish of Llanaber, about midway between Dolgelly and Barmouth.

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RON AND STEEL RAILS, of all sections, from 10 to 86 lbs. per yard, new perfect, new slightly defective, or second hand, with Fish-plates, its and Nuts, Chairs, Spikes, and Points and Crossings to match, when re-

uired.

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CALIFORNIAN AND EUROPEAN AGENCY.

509, MONTGOMERY STREET, SAN FRANCISCO, CAL.

J. JACKSON, Manager;

THE MINING SHARE LIST.

BRITISH DIVIDEND MINES.

Shares.	00 07/	Pmi	d. La		Clos. pr					
3200	Blue Hills t, c, St. Agnes	4	6 6	36	36 36	0	4 0	0 2	0May	1881
6000	Carn Brea, c, t, Illogants	11	7 11	514	416 5	52 1	1 8	0 10	0Nov.	1881
4000	Craignant Bach, * I, Cardigan	5	0.,.			C	5 0	0 5	0Nov.	
10240	Devon Gt. Consols, c, a, Tavistock*1		0 0			118			9Dec.	
4700		10 1		67%		135 1	6 0		0Apr.	
6400	East Pool, t, c, Illogan	0 1	9			37			0Bept.	
12000	Great Holway, 2, Flintshire	5 4		536		0 1			6July	
15000	Great Laxey, I, Isle of Man*1	4 0	0	1614		29 13	0		July	
	Green Hurth, I, Durham.	0 6			6% 6%		0	0 5	0May	
9830	Gunnfalake (Clitters), t, c	3 3	0		21/4 23/4	0 1			0Mar.	
	Isle of Man, I, Isle of Man"	25 (0			83 5			Sept.	
- 6000	Killifreth, t, Chacewater	1 3	6		1% 1%				July	
20000	Leadhills, 1, Lanarkshire	6 0	0	256.00	2% 3	1 5			Bept.	
400	Lisburne, 1, Cardiganshire	18 15				615			June	
10000	Mellanear, c, Hayle*	2 (0	314	3 316	2 3			JJuly	
9000	Minera Mining Co., I, Wrexham	5 0		5	3 3	69			6Aug.	
20000	Mining Co. of Ireland, el, e, l*	7 5	0			24			Jan.	
11829	North Hendre, I, Wales	2 10				3 10			Nov.	
8146	Ditto	1 1	0	=	A	0 1			0Nov.	
2000	North Levant, t, c, St. Just	13	0		1% 1%	4 1			0Feb.	
4760	Penhalls, t, St. Agness	4	0	72	14 34	3 1			6Jan.	
12000	Phoenix United, t, c. Linkinhorne .	6	0 3	214	134 2	17			6Apr.	
	Roman Gravels, I, Balop*	7 10	0	7	634 7	9 1				1883
50000	South Caradon, c, St. Cleert	1 (1%	1 1%				Jan.	
	South Condurrow, t, e, Cambornet	7 1		81/2		10			OAug.	
	South Darren, I, Cardigan*	1 1		-75····	74 75		0		OApr.	
	Tincroft, c, t, Pool, Illogant	12 17		7%		51	3 0		0Dec.	
	Van, I, Llanidloes*	1 !	0	458	938 971	25 1			6Jan.	
	West Holway, 1, Flintshire	1 0		- "		28				1881
	West Basset, c, Illogan 15	7 10		5						1882
	West Kitty, t, St. Agnes	0 1		1316					0July	
	Wheal Crebor, c, Tavistock	2	• 0			6 0 1	0 0		6July	
	Wheal Eliza Consols, t, St. Austell					57			0May	
	Wheal Grenville, t, Camborne			614		11			0Sept.	
	Wheal Kitty, t, St. Agness			136		12 1			6Jan.	
3000	Wheai Peevor, t, Redruths	11	1 0	314	3 3%	8 1	3 6	0 4	0Mar.	1881

	FOREIGN	DI	VID	END	MIN	ES.	,			77.7	
35500 Alamillos, I, Sp. 130000 Almada and Tir	ain*†	2 0	0	2		2 36	2 13			0Sept. 0May	
20000 Australian, c, Se	outh Australia!	7 7	6	3	214 3	104	1 9	6 0	2	0 Aug.	1883
15000 Birdseye Creek,	g, California	4 0	0	114	136 1	6	1 4			0Dec.	1882
30000 Bratsberg, c, N	orway	2 .0	0	2 %	2% 2	29	0 3			2 Sept.	
130009 California, 9, C	olorado	1 0	0		71/50					0Aug.	
20000 Cape Copper Mi	ning, T South Africa	5 0	0	214	9 9	14	0 14			0Sept. 0May	
65000 Colorado United 60000 Copiapo, c, Chil	1, 8-2 Colorado J	3 10	0	3 %	354 3	74	2 11	3 0		6Sept.	
70000 English & Austr	alian *t c. S. Aust	2 10	0		0/8 0		3 2			0Mar.	
2000 EngAus., g, Vi	et.* pref. (20000 o.)	1 0	0			***	0 3			8 Apr.	
25000 Fortuna, 4, Spai	n*†	2 0	0	314	3 3	36	8 8			6Sept.	
72000 Frontino & Boli	via, g, New Gran."1	2 0	0	1 1/2	11/6 1	1/4	0 11			0Apr.	
270000 Henriett," I, Lea	dville, Colorado	1 0	0	-			0 0	9 0		5Feb.	
200000 La Plata, s-l, Le		2 0	0	34	36	74		11 (3Oct.	
5000 Linares, l, Spair	1*1	3 0	0	31/2	3 3%	K(1	19 7	4	3	6Sept.	
20000 Marbelia Iron O	re, *, Bpain 1	0 0	0	3	472 3		2 10	0 0	10	0June	
185164 Mason & Barry*	c, Portugal	0 0	0	15%1	714 8	74	. 10	per cen		0May	1882
80859 QuebradaRail.,L		4 0	0	634	64 6	V					
50000 Panulcillo, c, Oh 25000 Pitangui, g, Bra	wil (in 6000 £1 nd)						0 1	0 0	ĭ	0Sept.	
1400 Pontgiband a-1	Francet 2	0 0	0	10	8 1					4Dec.	
100000 Port Phillip, g,	Clunes*t (£2 shares)	1 0	0	3/10	1/10 3/	in	1 14	2 0	0	10 Feb.	1881
50000 Rara Fortuna,*	s. Argent, Republic,	1 0	0			***	0 3	0 0	1	JJuly	1882
54000 Richmond Cons	ol., s, Nevada*†	5 0	0	614	5% 6	14	14 18	6 0	5	0 Aug.	1883
24532 Rio Tinto, *c, Mor	rtgage Bds., Huelva.10	0 0	01	031	00 102	xd	5 1	per cen	t.	July	1880
325000 Ditto, shares .		0 0	0	211/2	20 162	1 1/2	2 18	0 (16	0May	1883
40000 Santa Barbara,*		0 10	0							0May	
120000 Bcottish-Austral		1 0		234	116 1	72	1	p. cer	16.	May	1883
80000 Ditto, New		0 10	0	138	14 1	78	2 5	0 0	10.	0Apr.	
22500 Bierra Buttes, g.	Eureka	2 0	0	13/4	11/4 1	¥		0 0			1883
253000 St. John del Rey	St(PS Stock and mult		dealt	(n)	90 10					ear, June	
160000 Tambracherry,	g. Wynaad	1 0	0	16	- 54 - 54					6 Aug.	
625000 Tharsis, * c, sul, 8			0	634	614 7			6 0			
20000 Tolima, g,s, Col	ombia (A & Bahares)	5 0	0	6	5 (2 16	6 0	5	0July	
25000 Victoria* (Londo	on), g, Australia	1 0	0			***		10 0		8Feb.	
100000 Victorine (Neva	da, U.S.) Deb. Bds	1 0	0				0 2			6June	
15000 Western Andes.	s. Colombia	5 0	0	514	534 5	74	4 5	9 0	2	6 Oct.	1883

§ Have made calls since last dividend was paid.

NON-DIVIDEND BRITISH MINES.

-	NON-DIVIDEND BRITISH	M	INE	18.
25000	Abandmas # / Danblah	Paid.	La	114. Clos pr.
12000	Anderton, t, c, l, Devonshire	1 0	0	1% 1 1%
12000	Assheton, I, Carnaryonshire	5 0	0	
12000 30000	Hedford Unit., c, Tavis.(£1 liab.)	0 14	0	11/ 1 11/
10000	Brada, * I. Isle of Man	1 0	0	
30000	British, * s-l, bl, Wrexham	1 0	0	114 1 114
20000	Anderion, s, c, l, Devonshire Assheton, l, Carnaryonshire* Bedford Unit., e, T. Twis, (21 liab.) Bodidris, * l, bl, Denbighshire Brada, * l, Isle of Man British, * s-l, bl, Wrexham British Manganese Company* Beuno Conols * s, l Birtshire Brupo Conols * s, l Birtshire	1 0	0	14 16 16
20000	Beuno Consols, * s-l, Flintshire Bwich United, * l, Cardigan Collacombe Consols, c, bl, Lamerton	1 0 1 0 1 0 0 2 1 0 0 1 0	0	M 14 M
12000	Collacombe Consols, c, bl, Lamerton	0 2	6	3/16 ··· 3/16 3/16
50000	Carn Camborne, tpc, Camborne	1 0	0	21% 2
20000 37500	Carnarvonshire Cons.,*1, Llanrwst.	0 0	0	78 1/4 7/4
6000	Carnarvonanire Cons., ***, Lianrwst. Cathedral, ***, t. Gwennap Central Poxdale, ***, t. Isle of Man Coed-y-Fedw&Pant-y-Buarth, *** t. Cook's Kitchen, t. Hlogan Cornwall Great Cons.** (4500 issued) Creiglog, **, bl. Denbighshire Crook Burn.** t. Cumberland Denset Cons.** (4500 issued)	2 0	0	1 % 1
20000	Central Foxdale, " l, Isle of Man 1	17		
2500G 2450	Cook's Witchen t Illogent	1 0	0	24 20 20
10000	Cornwall Great Cons.* (4500 issued)		9	20 22%
30000	Creigiog, * I, bl., Denbighshire	0 17	0	36 36 36
6400 45000	Crook Burn, 1, Cumberland	17	0	16 36 16
12000	Derwent.* 1. Durham	10	0	78 16 16
60000	Devon Friendship, *c, ars, Tavistock	1 0	0	14 16 14
50000	Devon Great United* (21. shares)	5	0	% % I
12000	East Rive Hills t St Agnes	1 5	0	68 48. 68.
6000	East Botallack, t, St. Just	0	0	
6144	East Caradon, c, St. Cleer!	19	0	36 36 36
4000	E Crayen Moor #/ Pateley Bridge	17	3	% X . 36
15000	East Devon Cons. * c. Buckfastigh.	2 0	0	116 1 114
30000	East Herodsfoot, s-l, Liskeard 1	0	0	1 4 1
20000 25500	East Long Rake,* I, Wales	1 0	0	14 1 14
100	East Tregembo, t. c. Maraxion 10	0	0	22 16 20 2214
18000	East Van, !, Lianidloes"	5 0	0	
2048	East Whea! Lovell, t, Helston 1	7 8	6	M 16 M M 16 M
12500	Frongoch, * 1. Cardon (11000 sh. iss.)	2 0	0	14 16 1/4
12000	Gawton, c, Tavistock	2 0	0 d.]	38 24. 34
4000C	Glasg. Car.,c* [30000sh. £1 pd., 10000 1	5s. p	d.]	36 36 36
30000	Glasg. Car., c [*] [3000ah. £1 pd., 10000] Gobbett, [*] t, Devon	1 0	0	14 1 14
32000	Goginan, * 1, Cardiganshire			36 . 1/ 3/
25000	Goodevere, t, St. Cleer	1 0	0	36 ¥ 36 1¥ 1 1¥ 3 2 16 3
8500	Greet Duliffer (10000 ch. ferred)	1 0	U	3 236 3
6000	Great West Chiverton, I. St. Agnes.	0 6	6	36 36 36
6000	Great Wheal Worthy, * t, Cornwall !	1 0	0	78 78 79
20000	Grogwinion, I, Cardigan*	0 9	U	× × ×
70000	Gwydyr Amal. * l. bl. Carnaryon	1 0	0	1 % 1
8400	Hardshins,* 1, Westmore. (10s. sh.)	6 13	0	% % % % % %
12000	Herodsfoot, I, near Liskeard 1	6	U	14 1/4 1/4
18000 20000	Kirkmichael.* 1(2000 unissued)	1 0	0	14 16 14
5000	Kit Hill Gt. Cons. *c, ars-m, (21. sh.)	1 2	8	16 1/10 1/4
15000	Lady Ann, * s-l, Llanarmon	1 0	0	
25000 15000	Gorsedd and Merllyn Con., i. Flint. Great Dyliffe" (1900 sh. issued) Great West Chiverton, i. St. Agnes. Great Wheal Worthy, i. Cornwall. Grogwinion, i. Cardigan* Gwern-y-Mynydd, ii. Flint(pref.) Gwydyr Annl. i. i. i. Jarnaron. Hardshins, i. Westmore. (10s. sh.) Herodsfoot, i. near Liskeardf. Hingaton Down. c. Calstock* Kirkmichael, i. (2000 unissued) Kit Hill Gt. Cons. i. c. ars. m., (2i. sh.) Lady Ann. i. sl., Llanarmon Langford, i. c. Callington Llandegia, i. (2000 unissued) Llandegia, i. (2000 unissued)	0 10	0	36 34 36
5120	Llandegla,* i, Wales Lovell, i, Wendron Marke Valley, c, Linkinhorne; Medlyn Moor, t, Wendron	16	U	34 16 36
9000	Marke Valley, c, Linkinhorne!	7 7	0	34 36 34
8000		5 0	10	214 2 214
20000	Mona Consols, c, Anglesea	1 0	2	21/2 2 21/2
FARR	Mona Consols," c, Anglesea Monkstown," man, Devon Mostyn Consols," s-l, Fiint	2 0	U	156116 156
20000	Mostyn Consols, s-1, Filint	1 0	0	474 456 476
80000	Mounts Bay, c, t, Breage	1 0	0	% 14 14 24 212 16
6144	Mount Carbis, t, c, Redruth	1 15		214 234 3
2000	New Caradon, c, St. Oleer	0 5	0	
2400 8000	New Dolcoath, t, c, Camborne	9 13	0	314 3 314
00000	Mostyn Oonsols, **, Pilint	0 10	0	= :::
00000	New Holmbush, t, c, Callington	3 0	U	
6000 15000	New Redmoor, * var. Callington	1 0	0	21/2 13/4 2
7500	New Terras,* t, St. Austell	2 0	0	36 56 36
3500	New Tincroft,* t, Lelant	8 0	U	
12000	New Kitty, t, St. Agnes New Redmon, *var, Callington New Terras,* t, St. Austell New Tircoft,* t, Lelant New Trumpet,* t, Wendron New Van Cons. & Glyn,*,* New West Oaradon, c, Liskeard New Wheal Peevor, t, Redruth New Wyo Yalley, t, Montgomery,* North Blue Hills, t, St. Agnes North Blue, t, c, Scorrier !	1 0	3	116 1 116
2000	New West Caradon, c, Liskeard	0 5	O	6s 4s. 6s.
3000	New Wheal Peevor, t, Redruth	0 10	U	***
35000 12000	North Blue Hills, t. St. Agnes	1 0	0	1 14 1 2s 1s. 2s.
5328	North Busy, t. c. Scorrier !	0 2	6	36 16 36

NON-DIVIDEND MINES-

	NON-DIVIDEND MINES-	-con	tinned.
Shares	ke .	Paid.	Last wk. Close
25000	North Grogwinion, * s-l, Cardigshr North Herodsfoot, l, Liskeard North Molton, * c, mn, s, Devon	1 0	Last wk. Clos p
12000	North Herodafoot, I. Liskeard	0 13	61s.6d1s.1s.
50000	North Molton, * c, mn, s, Devon	1 0	018.18.
6000	North Penstruthal, t, c, Gwennap North Treskerby, c, St. Agnes Northern,* i, Durham Okel Tor, t, c, a, Calstock	2 19	6 14 "
2936	North Treskerby, c, St, Agnes	1 0	0 7
8000	Northern,* 1, Durham	8 17	10 "
40000	Okel Tor, * t, c, a, Calstock	1 0	0 ""
80000		1 0	0 36 36
60000	Owen Vean & Tregur., * t,c, Marazion Pandora, * l, Carnarvon	: 0	0 13214
12000	Pandora, 4, Carnarvon	2 0	0 16 19 19
45000	Parys Corporation, c, Anglesea	1 0	0 36 1
7500	Pateley Bridge, I, Yorkshire	1 0	0 10 1
6000	Pedn-an-drea, t, Redruth	4 3	0 136 20 .
12000	Pelyn Wood, c, Lanivery	0 2	0 16 16
6000	Pennant, 1, bar, North Wales"	5 0	0 516 5
20000	Penegarreg, I, Carmarthenshire	1 0	U
15000	Pandora,* l, Oarnarvon Panys Gorporation,* c, Anglesea Pateley Bridge, l, Yorkshire Pedn-an-drea, t, Redruth Pelyn Wood, c, Lanivery Pennant, l, bar, North Wales* Penegarreg, l, Carmarthenshire Pen-yr-Orsedd,* l, Flintshire Perran Onosio,* s-l. Perran Wheal Alfred, c Polorebo, t, Orowan	1 0	0 114114 19
12000	Person Wheel Alfred	1 0	0
6000	Polombo t Crown	0 12	0
10000	Polymen t Cornwall	0 12	6 1% 1
10000	Port Nigel Syn. * a-l. Carner (4000 ta	0 15	0 78 1/4 3
18000	Pr. Patrick * s.l. (als.12000 pf. 10 p.c.)	1 0	0
12000	Prince of Wales, c. s. Calstock	1 4	8 7
36000	Russell United. * c. Tavistock	0 15	8 29 78. 9
30000	Silver Hill.* Callington	1 0	0 20 16 1
50000	Sinclair, * l, bl, Whitford	1 0	0 157 16 3
10000	Sortridge, c. Horrabridge	1 0	0 33 136 13
6000	South Carbis, t, c, Redruth	0 10	
42000	So. Devon Unit., * c, Buckfastleigh.	1 0	0 134 156 1
5000	Perran Wheai Alfred, c. Polorebo, t, Orowan Polrose, t, Oornwal Port Nigel Syn, * -l, Oarnar. (40001s.) Pr. Patrick, * -l, dals. 12000 pf. 10 p.c.) Prince of Wales, c, s, Calstook Russell United, * c, Tavistook Silver Hill, * Callington Sinclair, * l, bt, Whitford Sortridge, * c, Horrabridge South Carbis, t, c, Redruth So. Devon Unit., * c, Buckfastleigh, South Polaruth L, c, t, Illogan South Postruthal, t, c, Gwonnap. So. Phonix&Caradon, * t, c, Linkinhn.	0 19	0 1
0000	South Penstruthal, t,c, Gwennap	3 4	6 124" 4 1
30000	So. Phonix& Caradon, *t,c, Linkinhn.	1 0	0 11
6000	South Tolearne, t, c, Camborne	5 11	8 b 4
2043	South Wheal Crofty, c, Illogan	5 4	
6000	So. Phonix Caradon, *t,c, Linkinhn, South Tolearne, t, c, Oamborne South Wheal Crofty, c, Illogan South Wheal Frances, t, Illogan! Tamar, *t, Bearalston* Tankerville Gt. Consols, t, Salop*, Trahartha Lemanne, t. Northill	9 14	4 934 9 9
40000	Tamar, s-1, Bearalston	1 0	0 11/6 26
10000	Tankerville Gt. Consols, I, Salop*.	1 0	0 3/10 1/2
12000	Trebartha Lemarne, t, Northill	0 4	9 34 12
6000	Tregembo, t, c, Cornwall	4 0	0 31/ 21/
00000	Tregembo, \$\(t_c\) Cornwall Tregembo, \$\(t_c\) Cornwall Tregontrees and Old Polgooth Con. Tresavean, \$\(t_c\) Gwennap. Trevarren United, \$\(t_c\) Cornwall Trevarren Lorence, \$\(t_c\) Cornwall Trevarren Lorence, \$\(t_c\) Canges Vaughan, \$\(t_c\) Cardiganshire. Vlott Sotor, Cardogrees	1 .	0 1/6 1/10
00000	Tresavean, t, c, cwennap	1 0	U 16 32 5
00000	Trevaunance t St Agnes	1 0	0 11411/4
1000	Vaughan. * 1. Cardiganshira	10 0	U 234 917 a
2000	Violet Seton, c, Camborne Weardale, * I, Northumber. (4I, share) West Assheton, I, Carnarvon West Caradon c, St. Cleer W Cayen Moor. I. Pateley Release	12 0	0
50000	Weardale, * I. Northumber, (41 abare)	1 0	0
12000	West Asslieton, I, Carnaryon	1 0	0 14 14
12000	West Caradon c, St. Cleer	0 8	3 36 36
3000	W. Craven Moor, t, Pateley Brdge* West Crebor, c, Tavistock West Devon Consols, c, Calstock	10 0	0 26
12000	West Crebor, c, Tavistock	0 11	6. V" V
10240	West Devon Consols, c, Calstock	1 2	A /8
10000	West Godolphin, t, c, Breage	1 2	6 1
12000	West Gonamena, c. St. Cleer	0 1	0 1
20000	West Lisburne, * 1, Cardigan	1 0	0 14 14
3000	West Mary Ann, I, Menheniot	1 13	0 1
20000	W. Pateley Bridge, I, Yorkshire	1 0	0
12000	West Phoenix, t, Linkinhorne	1 5	0 36 16
6000	West Devon Consols, c, Calstook West Godolphin, t, c, Breage West Gonamena, c. St. Cleer West Lisburne, t, Cardigan West Mary Ann, t, Menheniot W. Pateley Bridge, t, Yorkshire. West Polbreon, t, c, St. Agnes West Polbreon, t, b. Dayi. West Police, St. Dayi. West Toigus, c, Redruthis.	0 9	6 1 3/ 1
5190	West Tolque e Redeutis	6 13	0 1 34
512		02 0	0 12 9
2048	West Wheal Peavor & Podenth	36 18	3 214 134
3000	West Wheal Seton, c. Cambornets	3 10	6 4 214
6000	Wheal Agar, c, Illogan	15 0	0 12 8%
6144	Wheal Basset, c. Illogan!	70 0	
4000	Wheal Benny, * c, t, Cornwall	5 0	0 416 3
3000	Wheal Boys, t, Redruth	1 3	0
50000	Wheal Castle,* c, t, St. Just	1 0	0. 11/
12000	Wheal Coates, t, St. Agnes	0 8	0 65 1
2585	Wheai Agar, c, inogan; Wheai Baset, c, Illogan; Wheai Bonn, *c, t, Corawali Wheai Boys, t, Redruth Wheai Castle, *c, t, St. Just. Wheai Castle, *c, t, St. Just. W.Comf., & No. Tres., t, c, Gwennap Wheai Britannia, t, c, Gwennap Wheai Britannia, t, c, Gwennap Wheai Britannia, t, c, Gwennap Wheai Jan. t, Keai	2 2	
30000	Wheal Britannia, t, c, Gwennap	1 0	V 16 14
50000	Wheal Elizabeth, t, Cornwall	1 0	0 %
12288	Wheal Jane, t, Keal	2 14	0 34 14
12000	Wheal Jewell, c, St. Hilary	1 0	6 14 14
25000	Wh. Hony and Trelawny, s-1, Lisk.	2 0	0 116 11/
1 5000	Wheat Lusky, t, Callington	0 3	0 16 16
2000	Wheal Britannes, c, c, owennap Wheal Ilizabeth, *c, Oornwall Wheal Jane, t, Keal Wheal Jowell, c, St. Hilary. Wh, Hony and Trelawny, c-i, Lisk. Wheal Lusky, t, Callington Wheal Owles, t, St. Justj Wh. Silver & Lanteglas. *s.i.Campifel	7 3	U
30000	Wh. Silver & Lanteglos, *s-1, Camelfd.	1 0	
6000	Wheel Unv. t. c. Redenth	3 15	0 14 16
4096	Wheal Sisters, t, Lelant Wheal Uny, t, c, Redruth Yeoland Consols, t, Devonshire	18 9	D A 914
4000	Ystwith, * l, Cardigan	0 12	0
4000		. 0	0 1/10

bl, blende; c, copper; g, gold; l, lead; s, sliver; sl, slate
 s-l, sliver-lead; l, tin; z, zinc; l, tron; a, arsenic.
 *Limited Liability Companies; t quoted on the Stock Exchange.
 I have paid dividends.

NON-DIVIDEND FOREIGN MINES; FOREIGN AND MISCELLANEOUS STOCKS; TRAMWAYS; INSURANCE COMPANIES; GAS, IRON AND COAL, WAGON COMPANIES, &c.

	NON-DIVIDEND FOREIGN					NON-DIVIDEND FOREIGN MINES—continue
Shares		-	d. C	108. 1	pr.	34022 San Pedro, * c, Chili 2 0 3
	Akankoo,* g, Gold Cst.(100000 iss.) Anglo-African,*d, Kimberley,† Arendal, ĉ, Norway Asia Minor,*s-l, Lidjessy, Sivas		6 0 0	2 ³⁶	3 ³⁶	120000 Santa Cruz,* (ex. 10z. rotd. cap.) 1 0 0 50000 Sentein,* s.4, bl. Ariege, France 1 0 0 1 100000 Silver Chord,* s. Colorado 1 0 0 1 1 250000 Silver Peak,* s. Colorado 1 0 0 200000 Silver Chord,* s. Colorado
18000	Brazilian, g, * Brazil	-	0 0 0			100000 South-East Wynand, g, Indiat 1 0 0 1/6 2 50000 Taunus, s.l. c, Germ. (& 100,000 pt.) 1 0 0 1/6 2 100000 Tocopilla, s.c, Bolivia
15000 82500 23000 100000 100000 108749 75000 75000 68000	Callao Bis, "g, Venezuela		0 0 0 0 0 0	* ** ** *	34 34 34 34	43174 United Mexican, * ; *, Mexico
120000 100000 75000 100000 125000	Devala Central, * g, Wynand Devala Moyar, * g, Wynand† Devala Provident, * g, Wynand† Dingley Dell, * g, Devala, India Don Pedro North del Rey*	1 0 0 10 1 0 1 0	0 0 0	36 56	% %in	INSURANCE COMPANIES. State. Shares. Pri. Clos. pr. 50000 100 Alliance British and Foreign 11 36 37
205168 65000 100000	Eberhardt, s, Nevada*† Eureka, s, Nevada Exchequer, g, s, California*† Fiagstaff District, s.g. Utah	1 0 1 0 1 0	0	1/10	36 3/10	10000 20 British and Foreign Marine [L]: 4 21 22 25 25 25 25 25 25 25 25 25 25 25 25
75000	Gold Coast, g, Wassau	1 0	0	%		13453 100 Indemnity Marine 10 21 23 100 Indemnity Marine 50 15 16 100000 10 Lion Fire [L] 12 12 14 149826 20 L'pool & Lond. Globe (£1 annty) 2 20 2 21 21 21 21 21 21 21 21 21 21 21 21 2
	Hoover Hill, g, North Carolina Hultafall, l, bl, Orebro, Sweden .		0		-	35862 25 London
\$40000 \$0000 \$50000 \$50000	Indian Consolidated,* g Ind. Glenrock,* g, Wynaad! Indian Phænix,* g, Wynaad! Indian Trevelyan,* g, Wynaad Insabelle,* g, s, California. LX.L., g, s, California*	1 0	0			10000 100 Marine 18 26 27 50000 10 Marine L] 2 34 1 50000 10 Maritine L] 2 34 1 50000 10 Maritine L] 2 434 5 5 40020 50 North British and Mercantile 834 25 27 30000 100 Northern 10 44 46 40000 25 Ocean Marine 5 54 6 6
100000	Javali, g, Nicaragua* Kapanga,* g, New Zealand Kohincor,* s, Colorado London and California, g*1;	1 0	0	1/8	2/19 3/4	- Phonis - 220 23 200000 10 Queen 1 2 34 7 200000 10 Railway Passengers 29s 54 7 200000 50 Rock Life 56 8 8 8 8
135000 100000 9000 50000	Madras, g, Mysore	1 0 1 6 10 0 1 0	0	36	54 34	50000 10 Sea
75000 78500 37000	New Callao, * g, Venezuela New Emma, * s, Utah	1 0 10 0	0	1%	2	
75000 200000 100000	Norway, e., Halsönön and Radön. Nouv. Monde, g., Ven. (en com.)?. Nundydroog, e., Mysore	1 0	0	34	36	MISCELLANEOUS.
50000	Olatha * t./ Leadville Colorado	3 6	0			Shares. Company. Pind. Price.
	Oregom, g, Mysore Oregon, g, Oregon, U.S. (prf. sh.) Organos, g, Colombia Oritá, g, Colombia Pestarena United, g, Italy*1		0	1/4	36 36	10 Ditto do. 10 0 4 5 5 Australasian Electric
8000	Pierre d'Or, "g, Spain Pierre dte" (20000 pref.) Placerville, g, q, California Potosi, "g, Venezuela†	1 0	0		36	5 Hammond Elect. L. & P. Sup. 3 15 2 25 5 Indian and Oriental Electric 2 0 514 55 10 Ditto, preference
9000	Rhodes Reet, g, Wynaad;	1 0	0	34		8th. Ditto New Ordinary 50 0 107 112
880 10000	D Rico, s. Colorado (nonassasable). D Bio Grande do Sul* (and 31,030 pref. O Rossa Grande, q. Brazil*† (£1 ah.). D Buby and Dunderberg, g. Nev,*†	5 6	0			8tk. Ditto 5 per c. guar. pref 100 0 130 135 8tk. Ditto 5 per c. guar. pref 100 0 1.7 112 5 8wam United Electric 2 0 15 23 10 United Asbestos 10 0 15 23 12 United Asbestos 10 0 15 23

IRON AND COAL COMPANIES.

Share £100	Company. Abbot, John, and Co [L] &		id.		Pri	ce. 50	
5		- 5	00	***	32	33	1
10	Bagnall, John, and Sons [L] Benhar Coal Co. [L]	10	0				7
20	Bilbao River& Cantabrian R.Co. 1 Bolckow, Vaughan, & Co. [L] A Brown, Bailey, and Dixon [L]	12	000		12	1214	
100		75	0	***	58	59	
100 20 10	Cammeli and Co. [L]	10	0000		66 10%	66% 10	xd dis
10	Chillington Iron Co. [L] Consett Iron Co. [L]	50	000	***	614 114 23	6¾ 1¾ 24	
1	Consett Spanish Ore [L]	1	C	***	21/6	236	1
60	Davy Brothers [L]	18 22	10	***	34	1%	
23	Ebbw Vale Co. [L]	20	0	•••	534	634	
20	Knowles, Andrew, and Co. [L]	25 20	00	***	314	334	
10	Midland Iron Co. [L]	5	0 0	***	11/4	2 36	pm
4	Mwyndy Iron Ore [L]	3	15	***	14	52	
3	Nant-y-Glo & Blaina(8p.c.prf.)! Nerbudda Coal and Iron[L]	2	16	***	15/16		
10	Newport Abercarn Coal Co. [L]	10	0		9	10 10	
35	Paimer's Shipbidg. & Iron [L] Parkgate Iron Co. [L]	35	0	***	27 1/4	2814	
20	Patent Nut and Bolt [L]	14	0	***	7234	73%	T
50		50	0	***	41	43	xd
20	Pelsall Coal and Iron [L]	20	0	***	10	1014	
5	Rhymney Iron Co. [L]	5	0	***	134	11/4	
100	Sandwell Park Colliery Co. [L] Shotts Iron Co. [L]	10	0	***	1134	12	
	Sheepbridge Iron and Coal [L]	20	0	***	83%	8 34	1
50	Bilkstone & Dodw. Cl. & Iron [L]	45	0		-/-	-/•	*
50	Somorrostro Iron Co. [L]	50	0	***			
100			0	***		65	xd
100	Ditto ditto B	10	0		10	10%	xd
50	Teesside Iron & Engine Works Tredegar Iron and Coal, A [L]	30	0	***	28	27	
25	Ditto ditto B	25	0	***	17	19	
10	Vancouver Coal [L]	6	0		234	3	
25	W.Cumberland Iron & Steel [L]	20	0		8	834	

		DARKO.					
Issus.	SA	ires.				pr.	
100000	10	Agra [L]	all	***	956	10	
80000	20	Anglo-Egyptian Banking (L)	all	***	20	21	
30000	40	Bank of Australasia	all		82	84	
	20	Bank of British Columbia	all		23	24	
						69.	
						29	
	50	Bank of New South Wales	all	***	66		
						46	
						30	
		Charted of lad Aust & China	-11	***	93		
						1776	
						74	
50000	20	English Bk. of Rio de Janeiro (L)	10		13%	14%	
60000	25	London and River Plate [L]	10	***	12	14	
60000	. 7	London and San Francisco [L]	all	***	7	734	
150000	20	London Chartered of Australia	ail	***	24	25	
100000	10	National Bank of N. Zealand [L]	35	6	334	334	
60000	25	Oriental Bank Corporation	all	***	11	12	
						1134	
						60	
150000	11	Union of Australia	all	080	72	74	
	100000 20000 12500 12000 10000 10000 120000 120000 40000 20000 60000 150000 100000 60000 120000 1000000 1000000 100000 100000 100000 100000 100000 1000000 1000000 100	100000 10 20000 20 20000 40 12550 20 120500 50 10000 25 50000 20 100000 25 120000 53 40000 25 20000 10 50000 25 20000 10 50000 25 10000 25	S0000 20 Anglo-Egyptian Banking [L]	Instex Stares PM	Insus. States. M.	Insus. Stares. Price Clos.	Instact

GAS COMPANIES.

PA.	Clos. pr.
0000 5 Ditto New (T.)	0 8%
9700 Stk Brentford Consolidated	479 5
0000 5 Ditto, New [L]	192 197
4000 20British	39 41
00008tkCommercial	245 250
1000 Ord Gamilight and Coke. A. Ord 100	195 198
1400Dik Do. 4 per cent. Deb Stock 100	102 105
5000 10 Hong Kong and China all	10 19
00000.8tkImperial Continental100	021 025
2000 5 Malta & Mediterranean [L] all	231 233
0000 Metrop of Malbournes Ali	274 274
0000 Metrop. of Melbourne 6 p.c. Deb 5000 20 Monte Video [L]	
0000 6 Ottoman (T)	14% 18%
0000 5Ottoman [L]	4 4%
0000 5Oriental [L]	7% 7%
7500 20 MIO de Janeiro [L] all	23 LC 24 LC
100 Stk South Metropolitan. A	260 270
0000 Stk Ditto, ditto. B 100	227 232

TRAMWAYS.

A	DIEG I	***	М.	Clos.	er.
40000	5	Anglo-Argentine [L]	11	614	7
/ A TU	10	Bellast Street Train wave	.11	914	8
3000	10	Ditto, 5 per cent, Preference	110	4	ā
#23U	10	Bristoi [L]	10	7	8
ABUUU	AU	Dordeaux Train & Omnibna (T.)	411	916	9
3200	10	Onester [L]	AII .		-
24000	10	Dublin	- 94		
14690	10	Edinburgh Street Tramways	ite	10	11
35000	10	triangow Tramway & Omni ff.1		1516	1814
10000	10	Hughes Loco, and Tram, works.	411	******	
7500	10	Hull Street Tramways	ali	814	9
7500	10	Imperial (L)	-11	1.6	1
34000	10	Liverpool Unit. Tram & Om. [L]	all	7	736
25000	10	London [4]	all	1456	15
15000	10	London Street Tramways	all	.16	16%
B0000	10	North Metropolitan	all	1716	17%
8000	10	Nottingham and District [L]	ile	814	214
15947	10	Provincial [L]	all	714	814
5000	10	Southampton	lie	456	554
6000	10	Sunderland [L]	all	236	356
10000	10	Swansea [L]	ila	5	8
12000	10	Tramways of France (L)	-11	1	2
16500	10	Tramways of Germany [L]	all	10%	11%
40000	- 8	Tramways Union [L]	ila	234	3%
7200	10	Wolverhampton [L]	all	234	4%

TELEGRAPH COMPANIES.

	Shar		Pd.		Clos. p	r
6	Btk.	Anglo-American	100	0	45 4	
۲	10	Brazitian Submarine	10	0	10% 10	138
		Cuba	10	0	10% 1	
	10	Direct Spanish	9	0	5%	278
	20	Direct United States Cable	20	0	11% 1	
		Eastern	10	0	1034 1	1
		East, Exten. Austr. and China		0	11% 1	175
	10	German Union	10	0	10 1	076
		Great Northern of Copenhagen		0	12% 1	
		Indo-European		0	31 3	
		Tondon Plating Pravillan	3.0			